



# **STIC Search Report**

**EIC 3600**

**STIC Database Tracking Number: 107705**

**TO: Yonel Bealieu**  
**Location: CPK 5 3A11**  
**Art Unit : 3661**  
**Monday, November 10, 2003**

**Case Serial Number: 09/841258**

**From: Bode Akintola**  
**Location: EIC 3600**  
**PK5-Suite 804, 8A01**  
**Phone: 308-6150**

**Olabode.akintola@uspto.gov**

## **Search Notes**

Examiner Beaulieu,

Please find attached your search results.

Please let me know if you like for me to try a refocused search with a different strategy or additional terms.

Please take a few minutes to fill the attached Colored feedback form to the EIC.

Thanks,

Bode Akintola

# SEARCH REQUEST FORM

Scientific and Technical Information Center

Access DB#

1097705

Requester's Full Name: V. Proulx Examiner #: 73578 Date: 11/3/03  
 Art Unit: 3661 Phone Number 305-4072 Serial Number: 09/841,258  
 Mail Box and Bldg/Room Location: 3A11 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

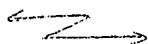
Title of Invention: \_\_\_\_\_

Inventors (please provide full names): \_\_\_\_\_

Earliest Priority Filing Date: \_\_\_\_\_

\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Vehicle



PDA Organizer

bidirectional communication

manage personal time and place schedule (diary, timetable data)

Employees

Bidirectional communication between a vehicle and an organizer (PDA) in a navigation system.

## STAFF USE ONLY

Searcher: B. A. A. A.  
 Searcher Phone #: 305-4072  
 Searcher Location: 3A11  
 Date Searcher Picked Up: 11-7-03  
 Date Completed: 11-10-03  
 Searcher Prep & Review Time: 12:00  
 Clerical Prep Time: \_\_\_\_\_  
 Online Time: 1:00

## Type of Search

NA Sequence (#) \_\_\_\_\_  
 AA Sequence (#) \_\_\_\_\_  
 Structure (#) \_\_\_\_\_  
 Bibliographic \_\_\_\_\_  
 Litigation \_\_\_\_\_  
 Fulltext \_\_\_\_\_  
 Patent Family \_\_\_\_\_  
 Other \_\_\_\_\_

## Vendors and cost where applicable

STN \_\_\_\_\_  
 Dialog 4336: 27/  
 Questel/Orbit \_\_\_\_\_  
 Dr.Link \_\_\_\_\_  
 Lexis/Nexis \_\_\_\_\_  
 Sequence Systems \_\_\_\_\_  
 WWW/Internet ✓  
 Other (specify) \_\_\_\_\_

1 (Twice Amended) A vehicle navigation system provided with various interlinked facilities, comprising a user I/O facility, a route planning facility and a position determining facility, wherein the navigation system is arranged to interface to a data communication facility pertaining to an organizer device, said organizer device comprising a facility for storing and managing a personal time and place schedule, wherein there is bi-directional communication of system-operational data between said navigation system and said organizer.

10 (Twice Amended). A vehicle navigation system comprising a user I/O facility, a route planning facility, and a position determining facility, wherein the navigation system interfaces with a data communication facility of an organizer device, said organizer device comprising a facility for storing and managing a personal time and place schedule, wherein there is bi-directional communication of system-operational data between said navigation system and said organizer.

17 (Twice Amended). A vehicle navigation system comprising a user I/O facility, a route planning facility, and a position determining facility, wherein the navigation system interfaces with a data communication facility of an organizer device, said organizer device comprising a facility for storing and managing a personal time and place schedule, wherein there is bi-directional communication of system-operational data between said navigation system and said organizer, wherein said organizer device provides diary or timetable data to said navigation system for use in the navigation system's route planning facility, and wherein said organizer device is physically interfaced to said data communication facility of said organizer device.

Set	Items	Description
S1	26	AU=(VOLKEL A? OR VOLKEL, A?)
S2	308126	VEHICLE OR LORRY OR LORRIES OR TRUCK? OR AUTOMOBILE? OR CAR OR CARS
S3	1745857	TERMINAL? ? OR COMPUTER? ? OR PC? ? OR LAPTOP? OR PALM? PD- A? ? OR NOTEBOOK? OR WORKSTATION? OR NODE? ? OR CPU? ? OR ORG- ANIZER? ? OR DEVICE? ?
S4	56998	BIDIRECTION? OR (BI OR TWO OR MULTI)() (WAY OR DIRECTIONAL) OR MULTI()WAY
S5	73873	SCHEDUL? OR NAVIGAT? OR TIME TABLE OR DIARY
S6	8	S1 AND S2 AND S3 AND S5
S7	3	S6 AND S4
S8	4688	S2(10N)S5
S9	2134	S8(25N)S3
S10	21	S9(15N)S4
S11	2454	S2(S)S4
S12	103	S11(15N)S5
S13	230	S11(S) (PDA? ? OR ORGANIZER? ? OR HANDHELD? OR DIGITAL()ASS- ISTAN? OR PORTABLE)
S14	27	(S7 OR S10 OR S12 OR S13) AND IC=G01C-021?

? show file

File 348:EUROPEAN PATENTS 1978-2003/Nov W01  
(c) 2003 European Patent Office

File 349:PCT FULLTEXT 1979-2002/UB=20031106,UT=20031030  
(c) 2003 WIPO/Univentio

14/3,K/1 (Item 1 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
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01549097

**System and computer program for and method of communication navigation  
Vorrichtung, Computerprogramm und Verfahren zur Kommunikationsnavigation  
Systeme, programme d'ordinateur et procede pour la navigation en  
communication**

PATENT ASSIGNEE:

Pioneer Corporation, (2812424), No. 4-1 Meguro 1-chome, Meguro-ku,  
Tokyo-to, (JP), (Applicant designated States: all)

INVENTOR:

Fukushima, Atsuhiko, c/o Pioneer Corporation, Kawagoe Works, No. 25-1,  
Aza-Nishicho, Yamada, Kawagoe-shi, Saitama-ken, (JP)  
Toru, Fujita, c/o Pioneer Corporation, Kawagoe Works, No. 25-1,,  
Aza-Nishicho, Yamada, Kawagoe-shi, Saitama-ken, (JP)

LEGAL REPRESENTATIVE:

Viering, Jentschura & Partner (100646), Steinsdorfstrasse 6, 80538  
Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 1288622 A2 030305 (Basic)

APPLICATION (CC, No, Date): EP 2002019666 020903;

PRIORITY (CC, No, Date): JP 2001266470 010903

DESIGNATED STATES: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR;  
IE; IT; LI; LU; MC; NL; PT; SE; SK; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: G01C-021/26 ; G01C-021/34

ABSTRACT WORD COUNT: 175

NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English  
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200310	2531
SPEC A	(English)	200310	14371
Total word count - document A			16902
Total word count - document B			0
Total word count - documents A + B			16902

INTERNATIONAL PATENT CLASS: G01C-021/26 ...

... G01C-021/34

...SPECIFICATION increase of the scale of the processing and that of the  
apparatus. In these communication **navigation** systems, the map database  
information is obtained and provided through **two - way** wireless  
communication between a communication center apparatus on a communication  
network and a communication **navigation terminal** mounted on a **vehicle**  
(e.g. refer to the examples of Japanese Patent Application Laying Open  
NO. Hei 7...

14/3,K/2 (Item 2 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
(c) 2003 European Patent Office. All rts. reserv.

01549096

**System and computer program for and method of communication navigation  
Vorrichtung, Computerprogramm und Verfahren zur Kommunikationsnavigation**

**Systeme, programme d'ordinateur et procede pour la navigation en communication**

**PATENT ASSIGNEE:**

Pioneer Corporation, (2812424), No. 4-1 Meguro 1-chome, Meguro-ku,  
Tokyo-to, (JP), (Applicant designated States: all)

**INVENTOR:**

Fukushima, Atsuhiko, c/o Pioneer Corporation, Kawagoe Works, No. 25-1,,  
Aza-Nishicho, Yamada, Kawagoe-shi, Saitama-ken, (JP)  
Takenaka, Toyohiro, c/o Pioneer Corporation, Kawagoe Works, No. 25-1,,  
Aza-Nishicho, Yamada, Kawagoe-shi, Saitama-ken, (JP)

**LEGAL REPRESENTATIVE:**

Viering, Jentschura & Partner (100646), Steinsdorfstrasse 6, 80538  
Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 1288621 A2 030305 (Basic)

APPLICATION (CC, No, Date): EP 2002019665 020903;

PRIORITY (CC, No, Date): JP 2001266476 010903

DESIGNATED STATES: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR;  
IE; IT; LI; LU; MC; NL; PT; SE; SK; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: **G01C-021/26 ; G01C-021/34**

ABSTRACT WORD COUNT: 88

**NOTE:**

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English

**FULLTEXT AVAILABILITY:**

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200310	2451
SPEC A	(English)	200310	15136
Total word count - document A			17587
Total word count - document B			0
Total word count - documents A + B			17587

INTERNATIONAL PATENT CLASS: **G01C-021/26 ...**

**... G01C-021/34**

...SPECIFICATION increase of the scale of the processing and that of the apparatus. In these communication **navigation** systems, the map database information is obtained and provided through **two - way** wireless communication between a communication center apparatus on a communication network and a communication **navigation terminal** mounted on a **vehicle** (e.g. refer to the examples of Japanese Patent Application Laying Open NO. Hei 7...

**14/3,K/3 (Item 3 from file: 348)**

DIALOG(R)File 348:EUROPEAN PATENTS

(c) 2003 European Patent Office. All rts. reserv.

01549095

**System and computer program for and method of communication navigation**  
**Vorrichtung, Computerprogramm und Verfahren zur Kommunikationsnavigation**  
**Systeme, programme d'ordinateur et procede pour la navigation en**  
**communication**

**PATENT ASSIGNEE:**

Pioneer Corporation, (2812424), No. 4-1 Meguro 1-chome, Meguro-ku,  
Tokyo-to, (JP), (Applicant designated States: all)

**INVENTOR:**

Fukushima, Atsuhiko, c/o Pioneer Corporation, Kawagoe Works, No. 25-1,,

Aza-Nishicho, Yamada, Kawagoe-shi, Saitama-ken, (JP)  
Koga, Yuji, c/o Pioneer Corporation, Kawagoe Works, No. 25-1,,  
Aza-Nishicho, Yamada, Kawagoe-shi, Saitama-ken, (JP)  
Fujita, Toru, c/o Pioneer Corporation, Kawagoe Works, No. 25-1,,  
Aza-Nishicho, Yamada, Kawagoe-shi, Saitama-ken, (JP)

LEGAL REPRESENTATIVE:

Viering, Jentschura & Partner (100646), Steinsdorfstrasse 6, 80538  
Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 1288620 A2 030305 (Basic)

APPLICATION (CC, No, Date): EP 2002019664 020903;

PRIORITY (CC, No, Date): JP 2001266473 010903

DESIGNATED STATES: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR;  
IE; IT; LI; LU; MC; NL; PT; SE; SK; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: G01C-021/26 ; G01C-021/34

ABSTRACT WORD COUNT: 130

NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200310	1929
SPEC A	(English)	200310	14995
Total word count - document A			16924
Total word count - document B			0
Total word count - documents A + B			16924

INTERNATIONAL PATENT CLASS: G01C-021/26 ...

... G01C-021/34

...SPECIFICATION increase of the scale of the processing and that of the apparatus. In these communication **navigation** systems, the map database information is obtained and provided through **two - way** wireless communication between a communication center apparatus on a communication network and a communication **navigation terminal** mounted on a **vehicle** (e.g. refer to the examples of Japanese Patent Application Laying Open NO. Hei 7...

14/3,K/4 (Item 4 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

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01548939

Method and system of navigation with communication center for providing map information, terminal and computer program to perform communication navigation

Navigationsverfahren und -System mit einer Kommunikationszentrale zur Bereitstellung von Karteninformation, Endgerat und Programm zur Durchfuhrung von Kommunikationsnavigation

Methode et systeme de navigation avec une centrale de communication pour preparer des informations cartographiques, terminal et programme pour realiser une navigation par communication

PATENT ASSIGNEE:

Pioneer Corporation, (2812422), 4-1 Meguro 1-chome, Meguro-ku, Tokyo-to, (JP), (Applicant designated States: all)

INVENTOR:

Kawakami, Takashi, Pioneer Corporation, Kawagoe Works. No. 25-1,

Aza-Nishicho, Yamada, Kawagoe-shi, Saitama-ken, (JP)  
LEGAL REPRESENTATIVE:  
Reinhard - Skuhra - Weise & Partner (100733), Friedrichstrasse 31, 80801  
Munchen, (DE)  
PATENT (CC, No, Kind, Date): EP 1288624 A2 030305 (Basic)  
APPLICATION (CC, No, Date): EP 2002019042 020827;  
PRIORITY (CC, No, Date): JP 2001256779 010827  
DESIGNATED STATES: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR;  
IE; IT; LI; LU; MC; NL; PT; SE; SK; TR  
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI  
INTERNATIONAL PATENT CLASS: G01C-021/34  
ABSTRACT WORD COUNT: 140  
NOTE:  
Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English  
FULLTEXT AVAILABILITY:  
Available Text Language Update Word Count  
CLAIMS A (English) 200310 1978  
SPEC A (English) 200310 14956  
Total word count - document A 16934  
Total word count - document B 0  
Total word count - documents A + B 16934

INTERNATIONAL PATENT CLASS: G01C-021/34

...SPECIFICATION increase of the scale of the processing and that of the  
apparatus. In these communication **navigation** systems, the map D/B  
information is obtained and provided through **two - way** wireless  
communication between a communication center apparatus for providing map  
information on a communication network and a communication **navigation**  
terminal mounted on a **vehicle** (e.g. refer to the examples of Japanese  
Patent Application Laying Open NO. Hei 7...

14/3,K/5 (Item 5 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
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01466742

**Apparatus and method for delivering road map data to movable body**  
**Gerat und Verfahren zur Bereitstellung von Strassenkartendaten fur einen**  
**beweglichen Korper**  
**Appareil et procede pour fournir des donnees de plans de routes a un corps**  
**mobile**

PATENT ASSIGNEE:

NISSAN MOTOR COMPANY, LIMITED, (228491), 2, Takara-cho, Kanagawa-ku,  
Yokohama-shi, Kanagawa 221-0023, (JP), (Applicant designated States:  
all)

INVENTOR:

Seto, Fumio, Uragoryo G302, 3-68, Oppamahigashi-cho, Yokosuka-shi,  
Kanagawa 237-0063, (JP)  
Takada, Masayuki, 1509-6, Kamisuwa-cho, Isesaki-shi, Gunma 372-0021, (JP)

LEGAL REPRESENTATIVE:

Grunecker, Kinkeldey, Stockmair & Schwanhausser Anwaltssozietat (100721)  
, Maximilianstrasse 58, 80538 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 1249685 A2 021016 (Basic)  
APPLICATION (CC, No, Date): EP 2002005891 020314;  
PRIORITY (CC, No, Date): JP 2001112533 010411  
DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;



LU; MC; NL; PT; SE; TR  
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI  
INTERNATIONAL PATENT CLASS: **G01C-021/34**  
ABSTRACT WORD COUNT: 182  
NOTE:

Figure number on first page: 5

LANGUAGE (Publication,Procedural,Application): English; English; English  
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200242	951
SPEC A	(English)	200242	7241
Total word count - document A			8192
Total word count - document B			0
Total word count - documents A + B			8192

INTERNATIONAL PATENT CLASS: **G01C-021/34**

...SPECIFICATION which can enable road map data delivery system 1 shown in Fig. 1 to implement **bi - directional** communications between the respective movable bodies 10 and a road map data delivery **device** 20 to which the road map data delivering apparatus according to the present invention is applicable. Each movable body 10 includes an on- **vehicle navigation** system with a capability of wireless **bi - directional** communications, a personal handy phone system **terminal** , a **portable** personal **computer** (or called, **portable terminal** ), and so forth. A message representing a request of a delivery of a road map...

**14/3,K/6 (Item 6 from file: 348)**  
DIALOG(R) File 348:EUROPEAN PATENTS  
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01450424

**Off-board navigation system with personalized navigation database**  
**Off-Board-Navigationssystem mit personalisierter Navigations-Datenbank**  
**Systeme de navigation hors-bord avec une base de donnees de navigation**  
**personalisee**

PATENT ASSIGNEE:

Magellan Dis Inc., (2464010), 2950 Waterview, Rochester Hills, MI 48309,  
(US), (Applicant designated States: all)

INVENTOR:

Upparapalli, Karunanidhi, 6721 Granger Drive, Troy, Michigan 48098, (US)  
Spencer, Larry, 525 Joslyn, Lake Orion, Michigan 48362, (US)

LEGAL REPRESENTATIVE:

Degwert, Hartmut, Dipl.-Phys. (38534), Prinz & Partner Manzingerweg 7,  
81241 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 1241651 A1 020918 (Basic)

APPLICATION (CC, No, Date): EP 2002005240 020308;

PRIORITY (CC, No, Date): US 275227 P 010312

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;

LU; MC; NL; PT; SE; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: G08G-001/0969; G08G-001/0968; **G01C-021/34**

ABSTRACT WORD COUNT: 183

NOTE:

Figure number on first page: 3B

LANGUAGE (Publication,Procedural,Application): English; English; English  
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200238	1453
SPEC A	(English)	200238	3775
Total word count - document A			5228
Total word count - document B			0
Total word count - documents A + B			5228

...INTERNATIONAL PATENT CLASS: **G01C-021/34**

...SPECIFICATION or integrated circuit. It should be realized that the personal computer 104 can be a **laptop**, handheld, electronic **organizer**, desktop or the like. Primarily, the personal **computer** 104 provides access to the supply location 102 and typically will not include the **navigation** and inertia sensors provided within the **vehicle** 21.

A communication link 108 permits **two - way** communication between the remote units 100, 100' and the supply location 102. The communication link...

**14/3,K/7 (Item 7 from file: 348)**

DIALOG(R) File 348:EUROPEAN PATENTS

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01445571

**Method of presuming traffic conditions by using floating cars**

**Verfahren zur Verkehrszustandsprognose durch mobile Erfassungseinrichtungen**

**Procede de pronostic des conditions de circulation au moyen de vehicules flottants**

PATENT ASSIGNEE:

Hitachi, Ltd., (204151), 6, Kanda Surugadai 4-chome, Chiyoda-ku, Tokyo 101-8010, (JP), (Applicant designated States: all)

INVENTOR:

Fushiki, Takumi, Hitachi, Ltd., Intell.Prop.Group, New Marunouchi Bldg., 5-1 Marounouchi 1-chome, Chiyoda-ku, Tokoyo 100-8220, (JP)  
 Yamane, Kenichiro, Hitachi, Ltd., Intell.Prop.Group, New Marunouchi Bldg., 5-1 Marounouchi 1-chome, Chiyoda-ku, Tokoyo 100-8220, (JP)  
 Inoue, Takeshi, Hitachi, Ltd., Intell.Prop.Group, New Marunouchi Bldg., 5-1 Marounouchi 1-chome, Chiyoda-ku, Tokoyo 100-8220, (JP)  
 Yokota, Takayoshi, Hitachi, Ltd., Intell.Prop.Group, New Marunouchi Bldg., 5-1 Marounouchi 1-chome, Chiyoda-ku, Tokoyo 100-8220, (JP)

LEGAL REPRESENTATIVE:

Beetz & Partner Patentanwalte (100712), Steinsdorfstrasse 10, 80538 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 1235195 A2 020828 (Basic)

APPLICATION (CC, No, Date): EP 2002003212 020219;

PRIORITY (CC, No, Date): JP 200149303 010223

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: G08G-001/01; **G01C-021/36**

ABSTRACT WORD COUNT: 128

NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200235	769
SPEC A	(English)	200235	5267
Total word count - document A			6036

Total word count - document B 0  
Total word count - documents A + B 6036

...INTERNATIONAL PATENT CLASS: G01C-021/36

...SPECIFICATION his or her vehicle is going to travel.

While this embodiment assumes that the floating **car** data DB is used as the surrounding traffic conditions, it is possible to perform a forward forecast with an existing traffic information presentation system such as VICS ( **Vehicle** Information and Communication System) by using the traffic conditions received by the on- **vehicle** terminal in the case where the surrounding traffic conditions in the memory 1304 is converted ...

...be capable of radio communication such as broadcasting, small area communication or communication by a **portable** telephone. Moreover, especially in the case where a **two - way** communication function can be implemented, it becomes possible, by sending its own **vehicle** position, to limit the area of the surrounding traffic conditions and register the floating **car** data of its own **vehicle** with the floating **car** data DB 106.

(Example of Communication System for Transmitting Presented Traffic Jam Information)

Fig. 14...

14/3,K/8 (Item 8 from file: 348)

DIALOG(R) File 348:EUROPEAN PATENTS

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01430889

**A system and method for the acquisition of automobile traffic data through wireless networks**

**System und Verfahren zur Erfassung von Fahrzeugdaten uber ein Funkkommunikationsnetz**

**Système et methode d'acquisition de donnees de trafic par des reseaux de communication sans fil**

PATENT ASSIGNEE:

Openwave Systems Inc., (3397260), 800 Chesapeake Drive, Redwood City, CA 94063, (US), (Applicant designated States: all)

INVENTOR:

Vandermeijden, Tom R., 879 Corona Drive, Pacifica, CA 94044, (US)

LEGAL REPRESENTATIVE:

Jehle, Volker Armin (95141), Bosch, Graf von Stosch, Jehle,

Patentanwalte, Theatinerstrasse 8, 80333 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 1209647 A1 020529 (Basic)

APPLICATION (CC, No, Date): EP 2001126884 011112;

PRIORITY (CC, No, Date): US 718970 001121

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: G08G-001/0967; G01C-021/32

ABSTRACT WORD COUNT: 62

NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text Language Update Word Count

CLAIMS A (English) 200222 1294  
SPEC A (English) 200222 5279  
Total word count - document A 6573  
Total word count - document B 0  
Total word count - documents A + B 6573

...INTERNATIONAL PATENT CLASS: **G01C-021/32**

...SPECIFICATION 109 transmit and receive data to and from mobile communication devices. Within some or all **automobiles** 120-129 are these mobile communication devices, such as, cellular telephones, **two - way** radios, or **two - way** pagers (e.g., in which the necessary transaction software is electronic in a microchip). Mobile communication devices such as global positioning satellite systems may also be carried within **automobiles** 120-129, as well as, mobile personal computers and **handheld** computing devices. In one embodiment, the mobile device is a cellular telephone with an intelligent

**14/3,K/9 (Item 9 from file: 348)**

DIALOG(R)File 348:EUROPEAN PATENTS

(c) 2003 European Patent Office. All rts. reserv.

01393947

**VEHICLE CONTROL DEVICE**

**FAHRZEUG-STEUERGERAT**

**DISPOSITIF DE COMMANDE DE VEHICULE**

PATENT ASSIGNEE:

Hitachi, Ltd., (204145), 6 Kanda Surugadai 4-chome, Chiyoda-ku, Tokyo  
101-8010, (JP), (Applicant designated States: all)

INVENTOR:

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PATENT (CC, No, Kind, Date): EP 1298624 A1 030402 (Basic)  
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APPLICATION (CC, No, Date): EP 2000937314 000620; WO 2000JP4010 000620

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;  
LU; MC; NL; PT; SE

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: G08G-001/16; G06F-009/46; **G01C-021/00** ;  
B60K-041/28; F02D-029/02; B60R-021/00

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Figure number on first page: 004

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Available Text	Language	Update	Word Count
CLAIMS A	(English)	200314	676
SPEC A	(English)	200314	10034
Total word count - document A			10710
Total word count - document B			0
Total word count - documents A + B			10710
...INTERNATIONAL PATENT CLASS: <b>G01C-021/00</b>			

...SPECIFICATION NTSC (National Television System Committee) signal.

The communication unit 145 is a unit for executing **bi - directional** communication by being connected to a public network and to a dedicated network, a **portable** phone and a PHS are available as equipment to be connected to the public network...

...is also included in the communication unit 145. Latest contents can be captured into a **vehicle** in abundance by connecting a **vehicle** -mounted **navigation** means to the Internet through the communication unit 145. Available as an example of the...

...intersections within the radius of 2 km from the location where the one's own **vehicle** exists.

The broadcast receiver 170 is a unit for receiving broadcasting waves transmitted from broadcast...

**14/3,K/10 (Item 10 from file: 348)**

DIALOG(R) File 348:EUROPEAN PATENTS

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01348789

Vehicle navigation **system with interface to an organizer device**  
**Fahrzeugsnavigationssystem mit einer Schnittstelle an einem elektronischen**  
**Terminkalender**  
**Systeme de navigation pour vehicule avec une interface pour un agenda**  
**electronique**

PATENT ASSIGNEE:

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PATENT (CC, No, Kind, Date): EP 1152217 A1 011107 (Basic)

APPLICATION (CC, No, Date): EP 2000201493 000425;

DESIGNATED STATES: DE; FR; GB; IT

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: **G01C-021/26**

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NOTE:

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CLAIMS A	(English)	200145	305
SPEC A	(English)	200145	1604
Total word count - document A			1909
Total word count - document B			0
Total word count - documents A + B			1909

Vehicle navigation system with interface to an organizer device  
Système de navigation pour véhicule avec une interface pour un agenda  
electronique

INVENTOR:

Volkel, Andreas ...

INTERNATIONAL PATENT CLASS: G01C-021/26

...ABSTRACT A1

A **navigation** system is provided with various interlinked facilities, including a user I/O facility, a route planning facility and a position determining facility. In particular, the **navigation** system is arranged to physically interface to a data communication facility pertaining to **organizer device** .

...SPECIFICATION A1

The invention relates to a **vehicle navigation** system provided with various interlinked facilities, including a user I/O facility, a route planning...

...position determining facility. The invention also relates to a method for operating such a system.

**Vehicle navigation** systems have become widespread. Their purpose is generally to facilitate the planning of a user...

...activities, to the heuristic solving of the "travelling salesman" problem, and other. Various other functional **devices** that have been coming into use could amplify the functionalities of the **navigation** system to an enormous degree. A particular **device** is the so-called **organizer device** , that is quite often portable. Associated functions in question are the following:

- \* Loading of routes planned earlier from the **organizer device** into the **navigation** system

- \* Loading personal and other names from the **organizer** into the **navigation** system that therefrom can complete the necessary data for planning the route, whilst combining and...

...proximity and other criteria

- \* Reporting actual arrival times, travel times, and the like to the **organizer** that can use these for updating its internal **organizer** data, such as those relating to future appointments

- \* Warning a user person about a next...

...to start, in accordance with appointments that have been made on the level of the **organizer** .

Physically combining a **navigation** system with such **organizer device** will provide for a more efficient coupling and retrocoupling between the various components of the...

...It is an object of the present invention to physically integrate the functionality of a **vehicle navigation** system and various functionalities pertaining to the field of office automation, and in particular, the functional features of an **organizer device** .

Therefore, a **vehicle navigation** system provided with various interlinked facilities, including a user I/O facility, a route planning facility and a position determining facility according to the invention is characterized in that the **navigation** system is arranged to physically interface to a data communication facility pertaining to an **organizer device** .

A preferred embodiment of such system is characterized in that said

**navigation** system is arranged to signal actual route data to said **organizer device** for consideration in a preexistent timetable or **diary** context.

Such system is preferably characterized in that said **organizer device** is arranged to signal actual **diary** or timetable data to said **navigation** system for consideration in a preexistent or future route scheme context.

Another preferred embodiment of a comprehensive **navigation** system with various interlinked facilities, including a user I/O facility, a route planning facility...

...characterized in that it is physically interfaced to a data communication facility pertaining to an **organizer device**.

A method for operating a **vehicle navigation** system provided with various interlinked facilities, including a user I/O facility, a route planning...

...and a position determining facility, according to the invention is characterized by physically interfacing the **navigation** system to a data communication facility pertaining to an **organizer device**.

These and further aspects and advantages of the invention will be discussed more in detail...

...reference to the appended Figures that show in:

Figure 1 an overall diagram of a **vehicle navigation** system according to the invention;

Figure 2 an integrated combination of a **navigation** system and an **organizer device**;

Figure 3 the same combination connected through a wired interface;

Figure 4 ditto for a...

...aspects of the earlier combinations;

Figure 6 a block diagram of an interacting combination of **navigation** system and **organizer**.

The principle of the invention is to combine the functionalities of a **vehicle navigation** system on the one hand, and of an **organizer device** on the other hand. The latter **device** may be part of the **navigation** system itself, or will be able to communicate on an interface that connects the **navigation** system with the **organizer device**. For example, the **organizer device** is provided to load **organizer** data into the **navigation** system, and to therefrom receive data for use on the **organizer device** level.

Figure 1 shows an overall diagram of a comprehensive **navigation** system, that by way of example has nine subsystems, as follows. Block 20 symbolizes a user person who wants to be guided by the system. The user interfaces **bidirectionally** to the system's I/O that may have various hardware and software facilities such...

...as location, business hours, and actual services present at those facilities. Block 34 represents a **navigational** data base that may comprise a road network, together with physical distances or travel time ...

...and others. Block 36 represents a position system that detects an actual position of the **vehicle**, such as through using a well known GPS system. Block 26 represents an event table...

...be no longer reachable, or only in a delayed manner, or which may necessitate the **vehicle** to take a detour.

Block 28 represents a destination table that ...base in Block 32, and the event table in block 26. Block 30 represents a **navigational**

**computer** that is fed with the destination table from block 28, with the **navigational** data base from block 34, and with the position from block 36. From these informations...

...points. Block 24 represents the travel planning that is fed by the information from the **navigational computer** 30, and which block 24 furthermore **bidirectionally** interfaces to the destination table in Block 28, and to the User I/O in...

...the embodiment of the present invention.

Figure 2 shows an integrated combination 44 of a **navigation** system 46 and an **organizer** 48. The latter comprises a **diary** 50 with listed appointments and other time-related data, such as birthdays or holidays. Also, the **diary** can specify certain destinations that should be visited on particular days or instants. According to a predetermined **schedule**, such items may be communicated self-reliantly along the connection shown to the **navigation** system system for consideration therein, such as by including them in a journey as destinations...

...means of communication modules 54, 56, but not integrated. This configuration allows to unplug the **organizer** for hand-carrying by a user person, that now need not always be the same, inasmuch as the **vehicle** and its **navigation** system may be shared by various persons.

Figure 4, shows the same combination 62, 74...

...78, 82, 84, 86, 88 is wired, but the residential module 78 contains both the **navigation** system 76, the communication module 82, and also an **organizer** subsystem 80 that represents a part of the overall **organizer** functionality, such as the **diary** for only a limited time interval, such the next week. The embodiment of Figure 5b...

...modules 98, 100.

Figure 6 shows a block diagram of an interacting combination of a **navigation** system, and an **organizer device**, broken up into functional versus communication subsystems. The central **navigation** system comprises a **navigational computer** 114, a **navigation** memory 118, **navigation** system I/O 115 that in particular comprises the user interface, and other **navigation** system subsystems 116. The **computer**, as in Figure 1, is arranged for route planning, assessing of routes actually taken, checking...

...legally prescribed rest interval must be taken between the driving periods. Block 112 represents the **organizer / navigation** system interface, that may be activated by either of the two communicating **devices**, such as based on an interrupt system, or according to periodic polling, by either of the two parties. Block 108 is the **organizer computer** that keeps up addresses, appointments, time **schedules**, and various other items as appropriate. The **organizer** has a user I/O subsystem 106 and an **organizer** memory 110.

...CLAIMS A1

1. A **navigation** system provided with various interlinked facilities, including a user I/O facility, a route planning facility and a position determining facility, characterized in that the **navigation** system is arranged to physically interface to a data communication facility pertaining to an **organizer device**.
2. A **navigation** system as claimed in claim 1, characterized in that said **navigation** system is arranged to signal actual route data to said **organizer device** for consideration in a preexistent timetable or **diary** context.
3. A **navigation** system as claimed in claim 1, characterized in that



said **organizer device** is arranged to signal actual **diary** or timetable data to said **navigation** system for consideration in a preexistent or future route scheme context.

4. A **navigation** system with various interlinked facilities, including a user I/O facility, a route planning facility...

...characterized in that it is physically interfaced to a data communication facility pertaining to an **organizer device**.

5. A **navigation** system as claimed in claim 4, characterized in that said **organizer device** is integrated into the **navigation device**

6. A **navigation** system as claimed in claim 4, characterized in that said **organizer device** is connected to the **navigation device** through fixed interconnection means (54, 56).

7. A **navigation** system as claimed in claim 4, characterized in that said **organizer device** is connected to the **navigation device** through wireless interconnection means (66, 68).

8. A **navigation** system as claimed in claim 4, characterized in that the **organizer device** functionality is split into a first part that is integrated into the **navigation** system, and into a second part that is connected to the **navigation** system through a linking that is external relative to said **navigation** system.

9. A method for operating a **vehicle navigation** system provided with various interlinked facilities, including a user I/O facility, a route planning facility and a position determining facility, characterized by physically interfacing the **navigation** system to a data communication facility pertaining to an **organizer device**.

14/3,K/11 (Item 11 from file: 348)

DIALOG(R) File 348:EUROPEAN PATENTS

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01346103

**A vehicle information processing system and method**  
**Fahrzeuginformationsverarbeitungssystem und -Verfahren**  
**Systeme et methode de traitement d'informations de vehicule**

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PATENT (CC, No, Kind, Date): EP 1150099 A1 011031 (Basic)

APPLICATION (CC, No, Date): EP 2000201528 000428;

DESIGNATED STATES: DE; FR; GB

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

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ABSTRACT WORD COUNT: 62

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CLAIMS A	(English)	200144	345
SPEC A	(English)	200144	1940
Total word count - document A			2285
Total word count - document B			0

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INTERNATIONAL PATENT CLASS: G01C-021/26

...SPECIFICATION use on the PDA level.

Figure 1 shows an overall diagram of a prior art lVehicle navigation system, that

14/3,K/12 (Item 12 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
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01346095

Navigation system with an interface to an electronic logbook  
Navigationssystem mit einer Schnittstelle zu einem elektronischen  
Fahrtenbuch

Système de navigation avec un interface pour un carnet de bord  
electronique

PATENT ASSIGNEE:

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PATENT (CC, No, Kind, Date): EP 1150098 A1 011031 (Basic)

APPLICATION (CC, No, Date): EP 2000201460 000425;

DESIGNATED STATES: DE; FR; GB

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CLAIMS A	(English)	200144	314
SPEC A	(English)	200144	1644
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Total word count - document B			0
Total word count - documents A + B			1958

Navigation system with an interface to an electronic logbook

Navigationssystem mit einer Schnittstelle zu einem elektronischen  
Fahrtenbuch

Système de navigation avec un interface pour un carnet de bord  
electronique

INVENTOR:

Volkel, Andreas ...

INTERNATIONAL PATENT CLASS: G01C-021/26

...ABSTRACT A1

A navigation system is provided with various interlinked facilities, including a user I/O facility, a route planning facility and a position determining facility. In particular, the navigation system is arranged to physically interface to a data communication facility pertaining to a log book device .

...SPECIFICATION A1

The invention relates to a **vehicle navigation** system provided with various interlinked facilities, including a user I/O facility, a route planning facility and a position determining facility. **Car navigation** systems have become widespread. The invention also relates to a method for operating such system. Such **vehicle navigation** system is generally to facilitate the planning of a user's itinerary on various levels...

...activities, to the heuristic solving of the "Travelling Salesman" problem, and other. Various other functional **devices**, which have been coming into use could amplify the functionalities of the **navigation** system to an enormous degree. A particular **device** is a trip log book that may be embodied as a portable **device**. Particularly advantageous functions thereof include the following:

- \* Automatic logging and storing of the data of...

...of intermediate stops;

- \* Loading of the above data or special-purpose selections thereof into a **notebook**, Personal Travel Assistant PTA or palmtop;

- \* Effecting automatic bookkeeping, post-calculating, billing, etcetera, viz a...

...various drivers, types of cargo, and destinations, or combinations thereof.

The physical combination of a **navigation** system with such log book **device** will provide for a more efficient coupling and retrocoupling between the various components of the...

...It is an object of the present invention to physically integrate the functionality of a **vehicle navigation** system and various functionalities pertaining to the field of office automation, and in particular, the functional features of a log book **device**.

Therefore, a **vehicle navigation** system provided with various interlinked facilities, including a user I/O facility, a route planning facility and a position determining facility according to the invention is characterized in that the **navigation** system is arranged to physically interface to a data communication facility pertaining to a trip log book **device**.

A preferable extension in functionalities of such **vehicle navigation** system according to the invention is characterized in that said **navigation** system is arranged for signalling actual route data to said log book **device** for consideration in a preexisting logging or financial context.

Another preferable extension in functionalities of the above **vehicle navigation** system according to the invention is characterized in that said log book **device** is arranged for signalling actual logging or financially oriented data to said **navigation** system for consideration in a preexistent or future route scheme context.

A method for operating a **vehicle navigation** system provided with various interlinked facilities, including a user I/O facility, a route planning...

...and a position determining facility according to the invention is characterized by physically interfacing the **navigation** system to a data communication facility pertaining to a log book **device**.

These and further aspects and advantages of the invention will be discussed more in detail...

...reference to the appended figures that show in:

Figure 1 an overall diagram of a **vehicle navigation** system according to the invention;

Figure 2 an integrated combination of a **navigation** system and a log book **device** ;

Figure 3 the same combination connected through a wired interface;

Figure 4 ditto for a...

...aspects of the earlier embodiments;

Figure 6 a block diagram of an interacting combination of **navigation** system and log book **device** .

The principle of the invention is to combine the functionalities of a **vehicle navigation** system on the one hand, and of a log book **device** on the other hand. The latter **device** may be part of the **navigation** system itself, or will be able to communicate on an interface that connects the **navigation** system with the log book **device** . For example, the log book **device** is provided to collect data of the actual route being taken, and further to load data provided by the log book **device** level into the **navigation** system for subsequent use by the **navigation** functionalities.

Figure 1 shows an overall diagram of a comprehensive **navigation** system, that by way of example has nine subsystems, as follows. Block 20 symbolizes a user person who wants to be guided by the system. The user interfaces **bidirectionally** to the system's I/O that may have various hardware and software facilities such...

...as location, business hours, and actual services present at those facilities. Block 34 represents a **navigational** data base that may comprise a road network, together with physical distances or travel time ...

...and others. Block 36 represents a position system that detects an actual position of the **vehicle** , such as through using a well known GPS system. Block 26 represents an event table...

...be no longer reachable, or only in a delayed manner, or which may necessitate the **vehicle** to take a detour.

Block 28 represents a destination table that contains the destinations and ...base in Block 32, and the event table in block 26. Block 30 represents a **navigational computer** that is fed with the destination table from block 28, with the **navigational** data base from block 34, and with the position from block 36; from these informations...

...points. Block 24 represents the travel planning that is fed by the information from the **navigational computer** 30, and which block 24 furthermore **bidirectionally** interfaces to the destination table in Block 28, and to the User I/O in...

...the embodiment of the present invention.

Figure 2 shows an integrated combination 44 of a **navigation** system 46 and a log book **device** 48. The latter comprises a log data base 50 with listed entries that record data...

...be used or monitored during the trip or the planning thereof. According to a predetermined **schedule** , such items as detected or measured by the **navigation** system may be communicated self-reliantly along the connection shown to the log book **device** for storage therein, for including in a relevant logged item or record, as the case may be. In certain situations, the **navigation** system may request the log book **device** to provide specific information for **navigational** usage.

Figure 3 shows the same combination 52, 58, 60 interconnected through a

wired interface...

...communication modules 54, 56, but not integrated. This configuration allows to unplug the log book **device** such as for hand-carrying by a user person, that now need not always be the same, inasmuch as the **vehicle** and its **navigation** system may be shared by various persons. Figure 4 shows the same combination 62, 74...

...78, 84, 86, 87, 88 is wired, but the residential module 78 contains both the **navigation** system 76, communication module 82, but also a log book subsystem 80 that represents a...

...receiver modules 98, 100.

Figure 6 shows a block diagram of an interacting combination of **navigation** system and log book, broken up into functional versus communication subsystems. The central **navigation** system comprises a **navigational computer** 114, a **navigation** memory 118, **navigation** system I/O, in particular the user interface items, and other subsystems 116. The **computer**, as in figure 1, is arranged for route planning, assessing of routes actually taken, checking...

...rest interval must be taken between the driving periods.

Block 120 represents the log book/ **navigation** system interface, that may be activated by either of the two communicating **devices**, such as based on an interrupt system, or according to periodic polling, by either of the two parties. Block 122 is the logbook **computer** that keeps up past **schedules**, accounts, bills incurred, pricings, costs, and various other items as appropriate. The log book **device** has a user I/O subsystem 124 and a log book memory 126.

...CLAIMS A1

1. A **navigation** system provided with various interlinked facilities, including a user I/O facility, a route planning facility and a position determining facility, characterized in that the **navigation** system is arranged to physically interface to a data communication facility pertaining to a trip log book **device**.
2. A **navigation** system as claimed in claim 1, characterized in that said **navigation** system is arranged for signalling actual route data to said log book **device** for consideration in a preexisting logging or financial context.
3. A **navigation** system as claimed in claim 1, characterized in that said log book **device** is arranged for signalling actual logging or financially oriented data to said **navigation** system for consideration in a preexistent or future route scheme context.
4. A **navigation** system with various interlinked facilities, including a user I/O facility, a route planning facility...

...that it is physically interfaced to a data communication facility pertaining to a log book **device**.

5. A **navigation** system as claimed in claim 4, characterized in that said log book **device** is integrated into the **navigation device**.
6. A **navigation** system as claimed in claim 4, characterized in that said log book **device** is connected to the **navigation device** through fixed interconnection means (54, 56).
7. A **navigation** system as claimed in claim 4, characterized in that said log book **device** is connected to the **navigation device** through wireless interconnection means (66, 68).
8. A **navigation** system as claimed in claim 4, characterized in that the log book **device** functionality is split into a first part that is

integrated into the **navigation** system, and into a second part that is connected to the **navigation** system through a linking that is external relative to said **Navigation** system.

9. A method for operating a **vehicle navigation** system provided with various interlinked facilities, including a user I/O facility, a route planning facility and a position determining facility, characterized by physically interfacing the **navigation** system to a data communication facility pertaining to a log book **device** .

14/3,K/13 (Item 13 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
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01329446

**Map display device and navigation device**  
**Kartenanzeige- und Navigationsvorrichtung**  
**Dispositif d'affichage de plans et de navigation**  
PATENT ASSIGNEE:

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PATENT (CC, No, Kind, Date): EP 1134554 A2 010919 (Basic)

APPLICATION (CC, No, Date): EP 2001106316 010315;

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LU; MC; NL; PT; SE; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

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CLAIMS A	(English)	200138	3594
SPEC A	(English)	200138	24381
Total word count - document A			27975
Total word count - document B			0
Total word count - documents A + B			27975

INTERNATIONAL PATENT CLASS: **G01C-021/36**

...SPECIFICATION present map display device. That is, in the present map display device, differences from the **navigation** device of the second embodiment are that the communications part 7 performs **two - way** communications, and the map data arranging part 4 differently operates. Thus, by structuring the **navigation** device of the second embodiment as such, realized is a navigation device functioning similar to...

...present map display device. Described in a fifth embodiment below is a case where such **navigation** device is mounted in a **vehicle** , and is applied to ETC.

(Fifth Embodiment)

FIG. 47 is a block diagram showing the...

14/3,K/14 (Item 14 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
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01318913

Information furnishing apparatus for coping with emergency during car driving

Einrichtung fur Ausgabe von Informationen fur einen Notfall wahrend des Fahrbetriebs

Dispositif de fourniture d'information pour traitement de l'etat d'urgence pendant l'usage de la voiture

PATENT ASSIGNEE:

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(Applicant designated States: all)

INVENTOR:

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PATENT (CC, No, Kind, Date): EP 1125785 A1 010822 (Basic)

APPLICATION (CC, No, Date): EP 2001103843 010216;

PRIORITY (CC, No, Date): JP 200043553 000216

DESIGNATED STATES: DE; FR; GB

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: B60K-035/00; **G01C-021/34**

ABSTRACT WORD COUNT: 146

NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200134	1964
SPEC A	(English)	200134	10829
Total word count - document A			12793
Total word count - document B			0
Total word count - documents A + B			12793

...INTERNATIONAL PATENT CLASS: **G01C-021/34**

...SPECIFICATION information retrieved to the source of request by communication.

On the other hand, the automotive **vehicle** side equipment 104 has a communication device 103, such as a **portable** telephone, for having **bidirectional** communication with the common equipment 101, a position detection device (unit) 107 for detecting the current automotive **vehicle** position, a time detection device 108 for detecting the current time, an emergency situation decision...

14/3,K/15 (Item 15 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS  
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01193280

**DATA STRUCTURE OF DIGITAL MAP FILE**

**DATENSTRUKTUR FÜR DIGITALE KARTE**

**STRUCTURE DE DONNÉES D'UN FICHIER CARTOGRAPHIQUE NUMÉRIQUE**

**PATENT ASSIGNEE:**

Matsushita Electric Industrial Co., Ltd., (1855508), 1006, Oaza-Kadoma,  
Kadoma-shi, Osaka 571-8501, (JP), (Applicant designated States: all)

**INVENTOR:**

NAKANO, Nobuyuki, Room 301 Tsuso 10, Ikuno 4-chome, Katano-shi Osaka  
576-0054, (JP)

IHARA, Yasuhiro, 352 Crestview Boulevard, Walled Lake, MI 48390, (US)

UEYAMA, Yoshiki, 610, Hamaderashowacho 5-cho, Sakai-shi Osaka 592-8345,  
(JP)

SUZUKI, Akihiro, 12-11, Taimacho, Neyagawa-shi Osaka 572-0078, (JP)

FUKUDA, Hisaya, Room 301 Verudomiru Ibaraki 7-20, Sho 2-chome,  
Ibaraki-shi Osaka 567-0806, (JP)

**LEGAL REPRESENTATIVE:**

Lang, Johannes, Dipl.-Ing. (86392), Bardehle Pagenberg Dost Altenburg  
Geissler Isenbruck, Postfach 86 06 20, 81633 München, (DE)

PATENT (CC, No, Kind, Date): EP 1134674 A1 010919 (Basic)

WO 200031663 000602

APPLICATION (CC, No, Date): EP 99972761 991124; WO 99JP6543 991124

PRIORITY (CC, No, Date): JP 98332412 981124; JP 99165940 990611

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;  
LU; MC; NL; PT; SE

INTERNATIONAL PATENT CLASS: G06F-017/30; **G01C-021/00** ; G09B-029/00;

G06T-001/00

ABSTRACT WORD COUNT: 158

**NOTE:**

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; Japanese

**FULLTEXT AVAILABILITY:**

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200138	3621
SPEC A	(English)	200138	38963
Total word count - document A			42584
Total word count - document B			0
Total word count - documents A + B			42584

...INTERNATIONAL PATENT CLASS: **G01C-021/00**

...SPECIFICATION 110 to set the starting point SP and the destination point  
DP. In a recent **car navigation** system, the starting point SP and the  
destination point DP are generally set by using...

**14/3,K/16 (Item 16 from file: 348)**

DIALOG(R)File 348:EUROPEAN PATENTS

(c) 2003 European Patent Office. All rts. reserv.

00959956

**Vehicle navigation apparatus**

**Fahrzeugnavigationsvorrichtung**

**Dispositif de navigation vehiculaire**

**PATENT ASSIGNEE:**

AISIN AW CO., LTD., (1029611), 10, Takane Fujii-cho, Anjo-shi Aichi



444-1192, (JP), (Applicant designated States: all)  
 INVENTOR:  
 Shinichi, Kato, c/o AISIN AW Co., Ltd., 10, Takane, Fujii-cho, Anjo-shi,  
 Aichi-ken 444-1192, (JP)  
 Katsuhiko, Mutsuga, c/o AISIN AW Co., Ltd., 10, Takane, Fujii-cho,  
 Anjo-shi, Aichi-ken 444-1192, (JP)  
 LEGAL REPRESENTATIVE:  
 Leson, Thomas Johannes Alois, Dipl.-Ing. et al (78981), Patentanwalte  
 Tiedtke-Buhling-Kinne & Partner, Bavariaring 4, 80336 Munchen, (DE)  
 PATENT (CC, No, Kind, Date): EP 871010 A2 981014 (Basic)  
 EP 871010 A3 000405  
 APPLICATION (CC, No, Date): EP 98106354 980407;  
 PRIORITY (CC, No, Date): JP 97105236 970408  
 DESIGNATED STATES: DE; FR; GB  
 EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI  
 INTERNATIONAL PATENT CLASS: **G01C-021/20**  
 ABSTRACT WORD COUNT: 141  
 NOTE:  
 Figure number on first page: 13

LANGUAGE (Publication,Procedural,Application): English; English; English  
 FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	9842	1060
SPEC A	(English)	9842	16493
Total word count - document A			17553
Total word count - document B			0
Total word count - documents A + B			17553

INTERNATIONAL PATENT CLASS: **G01C-021/20**

...SPECIFICATION receiver, cellular phone or telephone communication link,  
 or the like, may be used. In ATIS ( **automobile** traffic information  
 service) **bidirectional** or interactive communications are attainable via  
 telephone links or the like. Where information is received...

...other wireless communications tools including but not limited to  
 commercially available radio receivers, television receivers, **handheld**  
 telephones, and pagers.

The input/output device 30 is configured from a display 33, touch...

14/3,K/17 (Item 17 from file: 348)  
 DIALOG(R)File 348:EUROPEAN PATENTS  
 (c) 2003 European Patent Office. All rts. reserv.

00876882

**Navigation system for vehicles and storage medium**  
**Navigationssystem fur Fahrzeuge und Speichermedium**  
**Systeme de navigation pour vehicules et support d'informations**

PATENT ASSIGNEE:

AISIN AW CO., LTD., (1029610), 10, Takane Fujii-cho, Anjo-shi Aichi-ken  
 444-11, (JP), (applicant designated states: DE;FR;GB;IT)

INVENTOR:

Mitsuhiro, Nimura, c/o Aisin AW Co. Ltd, 10, Takane, Fujii-cho, Anjo-shi,  
 Aichi-ken 444-11, (JP)  
 Ito, Yasunobu, c/o Aisin AW Co. Ltd, 10, Takane, Fujii-cho, Anjo-shi,  
 Aichi-ken 444-11, (JP)

LEGAL REPRESENTATIVE:

VOSSIUS & PARTNER (100314), Siebertstrasse 4, 81675 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 803705 A2 971029 (Basic)  
EP 803705 A3 981125  
APPLICATION (CC, No, Date): EP 96119898 961211;  
PRIORITY (CC, No, Date): JP 96101668 960423; JP 96101669 960423; JP  
96101670 960423  
DESIGNATED STATES: DE; FR; GB; IT  
INTERNATIONAL PATENT CLASS: **G01C-021/20**  
ABSTRACT WORD COUNT: 142

LANGUAGE (Publication,Procedural,Application): English; English; English  
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	9710W4	1286
SPEC A	(English)	9710W4	7730
Total word count - document A			9016
Total word count - document B			0
Total word count - documents A + B			9016

INTERNATIONAL PATENT CLASS: **G01C-021/20**

...SPECIFICATION a distance sensor 26. The GPS receiver 21 obtains GPS satellite information to determine the **vehicle** position. The VICS information receiver 22 obtains information by utilizing FM multiplex broadcasting, radio beacon, optical beacon, etc. The data transceiver 23 performs **two - way** communication to and from an information center (such as ATIS) or other vehicles by utilizing **portable** telephone, personal computer, etc. The absolute heading sensor 24 detects the forward direction of movement of the **vehicle** by utilizing geomagnetism, for example. The relative heading sensor 25 detects changes in the forward...

...a gyro sensor, for example. The distance sensor 26 detects the distance traveled by the **vehicle** such as by detecting the number of wheel revolutions, for example. By utilizing information from...

...25 and 26, the central processing unit 4 can determine the present position of the **vehicle**, transmit and receive road information and traffic information, i.e., update information relating to road...

**14/3,K/18 (Item 18 from file: 348)**  
DIALOG(R)File 348:EUROPEAN PATENTS  
(c) 2003 European Patent Office. All rts. reserv.

00872308

**IMPROVED VEHICLE NAVIGATION SYSTEM AND METHOD**  
**VERBESSERTES FAHRZEUGNAVIGATIONSSYSTEM UND -VERFAHREN**  
**SYSTEME ET PROCEDE DE NAVIGATION AMELIORE POUR VEHICULE**

PATENT ASSIGNEE:

Magellan Dis Inc., (2464010), 2950 Waterview, Rochester Hills, MI 48309,  
(US), (Proprietor designated states: all)

INVENTOR:

CROYLE, Steven, R., 27201 Gardenway Road, Franklin, MI 48025, (US)  
SPENCER, Larry, E., II, 525 Joslyn Road, Lake Orion, MI 48362, (US)  
SITTARO, Ernie, R., 420 Wonder Lane, Romeo, MI 48065, (US)

LEGAL REPRESENTATIVE:

Schwepfinger, Karl-Heinz, Dipl.-Ing. (10982), Prinz & Partner GbR  
Manzingerweg 7, 81241 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 870173 A2 981014 (Basic)  
EP 870173 B1 011121

WO 9724577 970710  
APPLICATION (CC, No, Date): EP 96945804 961227; WO 96US20849 961227  
PRIORITY (CC, No, Date): US 580150 951228  
DESIGNATED STATES: AT; CH; DE; ES; FR; GB; IT; LI  
INTERNATIONAL PATENT CLASS: G01C-021/20 ; G01S-005/14  
NOTE:

No A-document published by EPO  
LANGUAGE (Publication,Procedural,Application): English; English; English  
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	200147	253
CLAIMS B	(German)	200147	209
CLAIMS B	(French)	200147	303
SPEC B	(English)	200147	8156
Total word count - document A			0
Total word count - document B			8921
Total word count - documents A + B			8921

INTERNATIONAL PATENT CLASS: G01C-021/20 ...

...SPECIFICATION which includes a display and keyboard, allows interaction between the user and the improved vehicle **navigation** system 10.

FIGS. 2b shows alternative configurations which can incorporate aspects of the improved **vehicle navigation** as would be understood by one of skill in the art. FIG. 2b contains reference...

...combination of the features, such as those shown in dashed lines. For example, the improved **vehicle navigation** system could rely upon information provided by the GPS receiver 18, the orthogonal axes accelerometer 28 and the map database 30 to propagate **vehicle** position. In additional embodiments, the improved **vehicle navigation** system 10 uses the orthogonal axes accelerometer 28, odometer 29 and the map database 30...

...as would be understood by one of ordinary skill in the art. Moreover, the improved **vehicle navigation** system can be incorporated in an advanced driver information system which controls and provides information on a variety of **automobile** functions.

FIG. 3a shows a block and data flow diagram for the improved vehicle **navigation** system 10 of FIG. 2a. The GPS receiver 18 provides position information, velocity information, pseudoranges...

14/3,K/19 (Item 19 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
(c) 2003 European Patent Office. All rts. reserv.

00870897

**A ZERO MOTION DETECTION SYSTEM FOR IMPROVED VEHICLE NAVIGATION SYSTEM**  
**NULLBEWEGUNGSDETEKTIONSSYSTEM FUR VERBESSERTES FAHRZEUGNAVIGATIONSSYSTEM**  
**DETECTION DE MOUVEMENT NUL POUR SYSTEME DE NAVIGATION AMELIORE DE VEHICULE**  
PATENT ASSIGNEE:

Magellan Dis Inc., (2464010), 2950 Waterview, Rochester Hills, MI 48309,  
(US), (Proprietor designated states: all)

INVENTOR:

CROYLE, Steven, R., 27201 Gardenway Road, Franklin, MI 48025, (US)  
SPENCER, Larry, E., II, 525 Joslyn Road, Lake Orion, MI 48362, (US)

LEGAL REPRESENTATIVE:

Degwert, Hartmut, Dipl.-Phys. et al (38536), Prinz & Partner GbR,  
Manzingerweg 7, 81241 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 870175 A2 981014 (Basic)  
EP 870175 B1 011121  
WO 9724584 970710  
APPLICATION (CC, No, Date): EP 96945965 961227; WO 96US20854 961227  
PRIORITY (CC, No, Date): US 579903 951228  
DESIGNATED STATES: AT; CH; DE; ES; FR; GB; IT; LI  
INTERNATIONAL PATENT CLASS: G01C-021/20  
NOTE:

No A-document published by EPO  
LANGUAGE (Publication,Procedural,Application): English; English; English  
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	200147	815
CLAIMS B	(German)	200147	715
CLAIMS B	(French)	200147	1009
SPEC B	(English)	200147	6548
Total word count - document A			0
Total word count - document B			9087
Total word count - documents A + B			9087

INTERNATIONAL PATENT CLASS: G01C-021/20

...SPECIFICATION combination of the features, such as those shown in dashed lines. For example, the improved **vehicle navigation** system could rely upon information provided by the GPS receiver 18, an accelerometer 28 (which in certain embodiments is an orthogonal axes accelerometer) and the map database 30 to propagate **vehicle** position. In additional embodiments, the improved **vehicle navigation** system 10 uses the accelerometer 28, an odometer 29 and a map database 30 according...  
...as would be understood by one of ordinary skill in the art. Moreover, the improved **vehicle navigation** system can be incorporated in an advanced driver information system which controls and provides information on a variety of **automobile** functions.

FIG. 3 shows a block and data flow diagram for the improved vehicle **navigation** system 10 which reveals the flexibility and accuracy of certain embodiments of the improved vehicle...

14/3,K/20 (Item 20 from file: 348)  
DIALOG(R) File 348:EUROPEAN PATENTS  
(c) 2003 European Patent Office. All rts. reserv.

00830285

SYSTEM FOR JOINING ELEMENTS TO COMPLEX JUNCTIONS AND LINKS IN ROAD NETWORK  
REPRESENTATION FOR VEHICLES

SYSTEM ZUM VERBINDEN VON ELEMENTEN MIT KOMPLIZIERTEN KREUZUNGEN UND  
EINMUNDUNGEN IN EINER STRASSENNETZDARSTELLUNG FUR FAHRZEUGE

SYSTEME PERMETTANT DE RATTACHER DES ELEMENTS A DES INTERSECTIONS ET DES  
LIAISONS COMPLEXES DANS LA REPRESENTATION D'UN RESEAU ROUTIER POUR LES  
VEHICULES

PATENT ASSIGNEE:

Mannesmann VDO Aktiengesellschaft, (205194), Kruppstrasse 105, 60388  
Frankfurt am Main, (DE), (Proprietor designated states: all)

INVENTOR:

EMMERINK, Carla, Josephina, Maria, Groenewoudseweg 1, NL-5621 BA  
Eindhoven, (NL)

VEENKER, Hendrik, Harm, Verlengde Scholtenskanaal W-Z 29, NL-7881 KB  
Emmercompascuum, (NL)

LEGAL REPRESENTATIVE:

Peters, Rudolf Johannes et al (49051), INTERNATIONAL OCTROOIBUREAU B.V.,

Prof. Holstlaan 6, 5656 AA Eindhoven, (NL)  
 PATENT (CC, No, Kind, Date): EP 776461 A2 970604 (Basic)  
 EP 776461 B1 011121  
 WO 9700425 970103  
 APPLICATION (CC, No, Date): EP 96913681 960528; WO 96IB502 960528  
 PRIORITY (CC, No, Date): EP 95201619 950616  
 DESIGNATED STATES: DE; FR; GB; IT  
 INTERNATIONAL PATENT CLASS: **G01C-021/20** ; G06F-017/30  
 NOTE:  
 No A-document published by EPO  
 LANGUAGE (Publication,Procedural,Application): English; English; English  
 FULLTEXT AVAILABILITY:  

Available Text	Language	Update	Word Count
CLAIMS B	(English)	200147	721
CLAIMS B	(German)	200147	641
CLAIMS B	(French)	200147	805
SPEC B	(English)	200147	5293
Total word count - document A			0
Total word count - document B			7460
Total word count - documents A + B			7460

INTERNATIONAL PATENT CLASS: **G01C-021/20** ...

...SPECIFICATION organisation.

#### GENERAL CONSIDERATIONS

As described in a article by M.L.G. Thoone, CARIN, a **car** information and **navigation** system, Philips Technical Review, Vol 43, No. 11/12, December 1987, pp. 317 - 329, the CARIN system contains an autonomous **car navigation** system that guides a driver to a destination using a digitized map stored on Compact...

**14/3,K/21 (Item 21 from file: 348)**

DIALOG(R)File 348:EUROPEAN PATENTS

(c) 2003 European Patent Office. All rts. reserv.

00826295

**Vehicle navigation system**

**Fahrzeugnavigationssystem**

**Système de navigation vehiculaire**

PATENT ASSIGNEE:

AISIN AW CO., LTD., (1029610), 10, Takane Fujii-cho, Anjo-shi Aichi-ken 444-11, (JP), (applicant designated states: DE;FR;GB;IT)

INVENTOR:

Nimura, Mitsuhiro, 1-19, Kero, Yahagi-cho, Okazaki-shi, Aichi 444, (JP)  
 Ito, Yasunobu, 31-12, Mukaiyama, Wakamatsu-cho, Okazaki-shi, Aichi 486, (JP)

LEGAL REPRESENTATIVE:

VOSSIUS & PARTNER (100314), Siebertstrasse 4, 81675 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 767358 A1 970409 (Basic)

APPLICATION (CC, No, Date): EP 96115833 961002;

PRIORITY (CC, No, Date): JP 95258040 951004; JP 9697737 960327

DESIGNATED STATES: DE; FR; GB; IT

INTERNATIONAL PATENT CLASS: **G01C-021/20**

ABSTRACT WORD COUNT: 147

LANGUAGE (Publication,Procedural,Application): English; English; English  
 FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
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CLAIMS A	(English)	EPAB97	1527
SPEC A	(English)	EPAB97	18568
Total word count - document A			20095
Total word count - document B			0
Total word count - documents A + B			20095

INTERNATIONAL PATENT CLASS: **G01C-021/20**

...SPECIFICATION of the vehicle.

Likewise, the beacon receiver 26 receives beacon waves as transmitted from the **vehicle** information and communication system (VICS), and provides I/O data bus 28 with either certain...

...to deal with transmission and reception of any required information, including voice communication signals of **handheld** cellular phones, frequency-modulation (FM) multiplexed signals, while allowing the present position information or the information as to road transportation conditions in the surrounding or "nearby" area around the **vehicle** 's present position to be transmitted to and received from the existing **two - way** present position information providing system or advanced traffic information service (ATIS) using the public telecommunication networks. Such information may be used as either **vehicle** 's present position detection information or as auxiliary information therefor. Note here that beacon receiver...

**14/3,K/22** (Item 22 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

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00651641

**Navigation system**

**Navigationssystem**

**Système de navigation**

PATENT ASSIGNEE:

Sumitomo Electric Industries, Ltd., (279011), 5-33, Kitahama 4-chome, Chuo-ku, Osaka 541, (JP), (applicant designated states: DE;FR;GB;IT;SE)

INVENTOR:

Nakajima, Masahiro, Osaka Works of Sumitomo Elec., Ind.Ltd., 1-3, Shimaya 1-chome Konohana-ku, Osaka, (JP)

Odagaki, Hideo, Osaka Works of Sumitomo Elec., Ind.Ltd., 1-3, Shimaya 1-chome Konohana-ku, Osaka, (JP)

LEGAL REPRESENTATIVE:

Pacitti, Pierpaolo A.M.E. (43011), Murgitroyd and Company 373 Scotland Street, Glasgow G5 8QA, (GB)

PATENT (CC, No, Kind, Date): EP 627612 A1 941207 (Basic)  
EP 627612 B1 970730

APPLICATION (CC, No, Date): EP 94303922 940531;

PRIORITY (CC, No, Date): JP 93134913 930604; JP 93159479 930629

DESIGNATED STATES: DE; FR; GB; IT; SE

INTERNATIONAL PATENT CLASS: **G01C-021/20**

ABSTRACT WORD COUNT: 157

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPABF2	2705
CLAIMS B	(English)	9707W5	1415
CLAIMS B	(German)	9707W5	1263
CLAIMS B	(French)	9707W5	1511

SPEC A	(English)	EPABF2	12658
SPEC B	(English)	9707W5	11826
Total word count - document A			15365
Total word count - document B			16015
Total word count - documents A + B			31380

INTERNATIONAL PATENT CLASS: G01C-021/20

...SPECIFICATION exterior to the vehicle and electrically connected to the external storage apparatus 202. In the **navigation** system thus constructed, the **navigation** apparatus 201 can be held in **two - way** radio communication with the external storage apparatus 202 through the first and second transmitter-receivers...NO", the step L8 proceeds to the step L9.

In the third embodiment of the **navigation** system according to the present invention, the **navigation** apparatus 201 can be held in **two - way** radio communication with the external storage apparatus 202 through the first and second transmitter-receivers 303a and 303b of the communication apparatus 303. Therefore, the user of the **navigation** apparatus of the **vehicle** can utilize a new version of the **navigation** program or other **navigation** programs without renting the external storage apparatus storing therein such **navigation** programs, if the user of the **navigation** apparatus or the **vehicle** driver hopes to utilize such **navigation** programs.

Figs. 19 and 20 show a fourth embodiment of the navigation system according to...

...YES", the step M8 proceeds to the step M11.

In the fourth embodiment of the **navigation** system according to the present invention, the **navigation** apparatus 201 can be held in **two - way** radio communication with the external storage apparatus 202 through the receiver 403a and a transmitter 403b of the communication apparatus 403. Therefore, the user of the **navigation** apparatus or the **vehicle** driver can utilize a new version of the **navigation** program without renting the external storage apparatus storing therein such a **navigation** program, if the user of the **navigation** apparatus or the **vehicle** driver hopes to utilize such a **navigation** program.

Figs. 21 and 22 show a fifth embodiment of the navigation system according to...

...SPECIFICATION exterior to the vehicle and electrically connected to the external storage apparatus 202. In the **navigation** system thus constructed, the **navigation** apparatus 201 can be held in **two - way** radio communication with the external storage apparatus 202 through the first and second transmitter-receivers...

...NO", the step L8 proceeds to the step L9.

In the third embodiment of the **navigation** system according to the present invention, the **navigation** apparatus 201 can be held in **two - way** radio communication with the external storage apparatus 202 through the first and second transmitter-receivers 303a and 303b of the communication apparatus 303. Therefore, the user of the **navigation** apparatus of the **vehicle** can utilize a new version of the **navigation** program or other **navigation** programs without renting the external storage apparatus storing therein such **navigation** programs, if the user of the **navigation** apparatus or the **vehicle** driver hopes to utilize such **navigation** programs.

Figs. 19 and 20 show a fourth embodiment of the navigation system according to...

...YES", the step M8 proceeds to the step M11.

In the fourth embodiment of the **navigation** system according to the present invention, the **navigation** apparatus 201 can be held in **two-way** radio communication with the external storage apparatus 202 through the receiver 403a and a transmitter 403b of the communication apparatus 403. Therefore, the user of the **navigation** apparatus or the **vehicle** driver can utilize a new version of the **navigation** program without renting the external storage apparatus storing therein such a **navigation** program, if the user of the **navigation** apparatus or the **vehicle** driver hopes to utilize such a **navigation** program.

Figs. 21 and 22 show a fifth embodiment of the navigation system according to...

14/3,K/23 (Item 23 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
(c) 2003 European Patent Office. All rts. reserv.

00435656

**Road network navigation systems.**

**Strassennetz-Navigationssystem.**

**Système de navigation pour réseau de rues.**

PATENT ASSIGNEE:

ROKE MANOR RESEARCH LIMITED, (1286240), Roke Manor, Romsey, Hampshire,  
SO51 0ZN, (GB), (applicant designated states:  
AT;BE;CH;DE;DK;ES;FR;GR;IT;LI;LU;NL;SE)

INVENTOR:

Worster, Thomas, 20 Hillside Avenue, Southampton, Hampshire, SO2 4JY,  
(GB)

LEGAL REPRESENTATIVE:

Fish, Norman Ernest et al (30622), Siemens Group Services Limited,  
Intellectual Property Department, Roke Manor, Old Salisbury Lane,  
Romsey, Hampshire SO51 0ZN, (GB)

PATENT (CC, No, Kind, Date): EP 482256 A1 920429 (Basic)  
EP 482256 B1 940518

APPLICATION (CC, No, Date): EP 90311656 901024;

PRIORITY (CC, No, Date): EP 90311656 901024

DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FR; GR; IT; LI; LU; NL; SE

INTERNATIONAL PATENT CLASS: **G01C-021/20**

ABSTRACT WORD COUNT: 86

LANGUAGE (Publication,Procedural,Application): English; English; English  
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	EPBBF1	171
CLAIMS B	(German)	EPBBF1	160
CLAIMS B	(French)	EPBBF1	177
SPEC B	(English)	EPBBF1	1241
Total word count - document A			0
Total word count - document B			1749
Total word count - documents A + B			1749

INTERNATIONAL PATENT CLASS: **G01C-021/20**

...SPECIFICATION B1

This invention relates to a method of coding a road network for **navigation** purposes, and to a road network **navigation** system incorporating such methods. EP- A -0 323 229 discloses such a method.

In- **car** route guidance systems are known in which a road network



consisting of an interconnected system...

14/3,K/24 (Item 1 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00444847 \*\*Image available\*\*

**TRAVEL RESERVATION AND INFORMATION PLANNING SYSTEM**

**SYSTEME D'INFORMATION ET DE PLANIFICATION POUR LES RESERVATIONS DE VOYAGE  
(TRIPS)**

Patent Applicant/Assignee:

DELORME PUBLISHING COMPANY INC,

Inventor(s):

DELORME David M,

GRAY Keith A,

FERGUSON T Angus,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9835311 A1 19980813

Application: WO 98US1823 19980130 (PCT/WO US9801823)

Priority Application: US 97797471 19970206

Designated States: CA JP MX AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT  
SE

Publication Language: English

Fulltext Word Count: 48411

International Patent Class: G01C-021/00 ...

Fulltext Availability:

Detailed Description

Detailed Description

... communication unit or WCU 907, typically hand-held 906 or mounted or used in a **vehicle** 905 like an **automobile** . The WCU 907 preferably includes a position sensor unit, e.g., GPS sensor 908, which...

...time - for example, by signals 909 from one or more global positioning satellites 910. The **portable** or mobile WCU 907 also preferably includes various simplified user INPUT means 914, 916, 918...

...920 designed for easy use while actually traveling or en route e.g. in a **vehicle** 905 ...user OUTPUT means are shown at 925, 9272 929 and 931. TRIPS WCUs 907 facilitate **two way** communications at 903 of standard TRIPS data packets 939 with at least one TRIPS travel...

...information and/or make travel arrangements "on the go", walking in a city, from their **vehicle** , during an off-road expedition and so forth.

115

FIGURE 9 illustrates portable TRIPS embodiments...notebook or laptop personal computer, a personal digital assistant or PDA, a "smart" cellular phone,

**two - way** pager, an "accessorized" GPS sensor, as well as a dedicated or specially manufactured appliance, and...

14/3,K/25 (Item 2 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00383841      \*\*Image available\*\*

**A ZERO MOTION DETECTION SYSTEM FOR IMPROVED VEHICLE NAVIGATION SYSTEM  
DETECTION DE MOUVEMENT NUL POUR SYSTEME DE NAVIGATION AMELIORE DE VEHICULE**

Patent Applicant/Assignee:

ROCKWELL INTERNATIONAL CORPORATION,  
CROYLE Steven R,  
SPENCER Larry E II,

Inventor(s):

CROYLE Steven R,  
SPENCER Larry E II,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9724584 A1 19970710

Application: WO 96US20854 19961227 (PCT/WO US9620854)

Priority Application: US 95579903 19951228

Designated States: JP US AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE

Publication Language: English

Fulltext Word Count: 7601

Main International Patent Class: **G01C-021/20**

Fulltext Availability:

Detailed Description

Detailed Description

... combination of the features, such as those shown in dashed lines. For example, the improved **vehicle navigation** system could rely upon information provided by the GPS receiver 18, an accelerometer 28 (which in certain embodiments is an orthogonal axes accelerometer) and tile rnap database 30 to propagate **vehicle** position. In additional embodiments, the improved **vehicle navigation** system 10 uses the accelerometer 28, an odorneter 29 and a rnap database 30 according...as would be understood by one of ordinary skill in the art. Moreover, tile improved **vehicle navigation** system can be incorporated in

C

an advanced driver information system which controls and provides information on a variety of **automobile** functions.

FIG. 3 shows a block and data flow diagram for the improved vehicle **navigation**

Z)

system I 0 which reveals the flexibility and accuracy of certain embodiments of the...

**14/3,K/26      (Item 3 from file: 349)**

DIALOG(R)File 349:PCT FULLTEXT

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00383840      \*\*Image available\*\*

**IMPROVED VEHICLE NAVIGATION SYSTEM AND METHOD USING GPS VELOCITIES  
SYSTEME ET PROCEDE DE NAVIGATION AMELIOREE POUR VEHICULE UTILISANT DES  
DONNEES DE VITESSE FOURNIES PAR GPS**

Patent Applicant/Assignee:

ROCKWELL INTERNATIONAL CORPORATION,  
CROYLE Steven R,

Inventor(s):

CROYLE Steven R,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9724583 A1 19970710

Application: WO 96US20852 19961227 (PCT/WO US9620852)

Priority Application: US 95579902 19951228

Designated States: JP US AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE  
Publication Language: English  
Fulltext Word Count: 7996

Main International Patent Class: G01C-021/20

Fulltext Availability:

Detailed Description

Detailed Description

... into the GPS receiver 18. The interface hardware 26 integrates the various components of the **vehicle navigation** system 10 with the application unit 22,

The system 10 can include a combination of the features, such as those shown in dashed lines. For example, the improved **vehicle navigation** system could rely upon information provided by the GPS receiver 18, an accelerometer 28 (which...

...accelerometer of recently available low cost, micromachined accelerometers) and the map database 30 to propagate **vehicle** position. In additional embodiments, the improved **vehicle navigation** system 10 uses the accelerometer 28, an odometer 29 and a map database 30 according...

...as would be understood by one of ordinary skill in the art. Moreover, the improved **vehicle navigation** system can be incorporated in an advanced driver information system which controls and provides information on a variety of **automobile** functions,

FIG. 1 shows a block and data flow diagram for the improved **vehicle navigation** system 10 which reveals the flexibility and accuracy of certain embodiments of the improved **vehicle navigation** system. The GPS receiver 18 provides position information, velocity information, pseudoranges and delta pseudoranges to...

14/3,K/27 (Item 4 from file: 349)

DIALOG(R) File 349: PCT FULLTEXT

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00191927 \*\*Image available\*\*

**INTEGRATED VEHICLE POSITIONING AND NAVIGATION SYSTEM, APPARATUS AND METHOD  
PROCÉDÉ, APPAREIL ET SYSTÈME DE NAVIGATION ET DE POSITIONNEMENT INTÉGRÉS DE  
VEHICULES**

Patent Applicant/Assignee:

CATERPILLAR INC,

Inventor(s):

KYRTSOS Christos T,  
GUDAT Adam J,  
CHRISTENSEN Dana A,  
FRIEDRICH Douglas W,  
STAFFORD Darrell E,  
SENNOTT James W,  
BRADBURY Walter J,  
CLOW Richard G,  
DEVIER Lonnie J,  
KEMNER Carl A,  
KLEIMENHAGEN Karl W,  
KOEHRSEN Craig L,  
LAY Norman K,  
PETERSON Joel L,

RAO Prithvi N,  
SCHMIDT Larry E,  
SHAFFER Gary K,  
SHI WenFan,  
SHIN Dong Hun,  
SINGH Sanjiv J,  
WEINBECK Louis J,  
WEST Jay H,  
WHITTAKER William L,  
WU BaoXin,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9109275 A2 19910627

Application: WO 90US7183 19901210 (PCT/WO US9007183)

Priority Application: WO 89US5580 19891211

Designated States: AT BR CA DE FR GB JP SE SU

Publication Language: English

Fulltext Word Count: 66470

Main International Patent Class: G01C-021/00

Fulltext Availability:

Claims

Claim

... above and to the

right of the "main" task 5316, It functions to read  
the **vehicle** port 5326, and report **vehicle** mode changes  
and **navigator** -to- **vehicle** communication state to the  
"main" 5316 via the EXEC QUEUE 5328, Additionally,  
the status of...information read, task 5306 calculates steer  
and speed corrections 420. It sends them to the  
**vehicle** 102, thereby controlling the **vehicle** 's course,  
j, **NAVIGATOR** SHARED (GLOBAL) MEMORY

As mentioned above with regard to the

**navigator** tasks 5300, the navigator 406 has a global  
memory structure 5400 which the various tasks...for which the vehicle can  
traverse a particular part of the route,

VEH.RESPONDING: the **vehicle** is responding to  
commands properly, se t **Navigator** status flags to  
Healthy.

NO-VEH.RESPONSE: the **vehicle** is not responding to  
commands, stop the vehicle,

VEH CHECKSUM ERR: the vehicle is not...

...TRACKER END OF ROUTE: tracker has reached the

qV

end of the path, stop the **vehicle** ,

TRACKER.STOPPED: notify the **Navigator** that the  
tracking task has stopped the **vehicle** .

The responses to the messages fTELE1,

114ANUALI, "AUTO", and 'READY' are somewhat different  
because these...

Set	Items	Description
S1	35	AU=(VOLKEL A? OR VOLKEL, A?)
S2	398097	VEHICLE OR LORRY OR LORRIES OR TRUCK? OR AUTOMOBILE? OR CAR OR CARS
S3	28964	(HANDHELD OR PORTABLE OR PERIPHERAL) (3N) (DEVICE? OR GADGET? OR EQUIPMENT) OR PDA OR PDAS OR PERSONAL() DIGITAL() ASSISTANT? ? OR PALM() PILOT? ? OR PALM() PILOT? ? OR ORGANIZER? ?
S4	290348	SCHEDUL? OR NAVIGAT? OR TIME() TABLE OR DIARY
S5	30621	BIDIRECTION? OR (BI OR TWO OR MULTI) ( ) (WAY OR DIRECTIONAL) OR MULTI() WAY
S6	7080	S2(15N) S4
S7	2	S6 AND S3 AND S5
S8	0	S2 AND S1
S9	10	S2 AND S3 AND S5
S10	10	S7 OR S9
S11	8	S10 NOT PY>2001
S12	8	RD (unique items)

? show file

File 2:INSPEC 1969-2003/Nov W1  
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File 35:Dissertation Abs Online 1861-2003/Oct  
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File 65:Inside Conferences 1993-2003/Nov W2  
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File 99:Wilson Appl. Sci & Tech Abs 1983-2003/Sep  
(c) 2003 The HW Wilson Co.

File 233:Internet & Personal Comp. Abs. 1981-2003/Jul  
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File 474:New York Times Abs 1969-2003/Nov 07  
(c) 2003 The New York Times

File 475:Wall Street Journal Abs 1973-2003/Nov 07  
(c) 2003 The New York Times

File 583:Gale Group Globalbase(TM) 1986-2002/Dec 13  
(c) 2002 The Gale Group

File 256:SoftBase:Reviews,Companies&Prods. 82-2003/Oct  
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12/5/1 (Item 1 from file: 2)  
DIALOG(R)File 2:INSPEC  
(c) 2003 Institution of Electrical Engineers. All rts. reserv.

6435201 INSPEC Abstract Number: C2000-01-5430-018

**Title: A universal information appliance**

Author(s): Eustice, K.F.; Lehman, T.J.; Morales, A.; Munson, M.C.; Edlund, S.; Guillen, M.

Journal: IBM Systems Journal vol.38, no.4 p.575-601

Publisher: IBM,

Publication Date: 1999 Country of Publication: USA

CODEN: IBMSA7 ISSN: 0018-8670

SICI: 0018-8670(1999)38:4L:575:UIA;1-1

Material Identity Number: I103-1999-004

Language: English Document Type: Journal Paper (JP)

Treatment: Practical (P)

Abstract: The consumer's view of a universal information appliance (UIA) is a personal device, such as a **PDA (personal digital assistant)** or a wearable computer that can interact with any application, access any information store, or remotely operate any electronic device. The technologist's view of the UIA is a portable computer communicating over a **bi-directional** wireless link to an elaborate software system through which all programs, information stores, and electronic devices can export their interfaces to the UIA. Using an exported interface, the UIA can interoperate with the exporting entity, whether a home security system, a video cassette recorder, corporate application, or an **automobile navigation** system. Furthermore, interfaces presented by the UIA can be tailored to the user's context, such as the user's preferences, behavior, and current surroundings. The UIA programming model supports dynamic interface style and content triggered on activity detected from the user's real-world and software context. In this paper we describe the design and first implementation of a UIA, a **PDA** that, through a wireless link, can interact with any program, access any database, or direct most electronic devices through a remote interface. The UIA model uses IBM's TSpaces software package as the interface delivery mechanism and resource database, and as the network communication glue. TSpaces supports communication between the UIA and any peer over a dual-mode wireless link. (37 Refs)

Subfile: C

Descriptors: distributed programming; portable computers; user interfaces ; wireless LAN

Identifiers: universal information appliance; personal device; **PDA** ; wearable computer; information store access; remote electronic device operation; **bi-directional** wireless link; software system; exported interface; interoperation; home security system; video cassette recorder; corporate application; **automobile navigation** system; user preferences; user behavior; dynamic interface style; programming model; wireless link; IBM TSpaces software package; resource database; interface delivery mechanism; network communication; dual-mode wireless link

Class Codes: C5430 (Microcomputers); C5250 (Microcomputer techniques); C6180 (User interfaces); C5620L (Local area networks); C6150N (Distributed systems software)

Copyright 1999, IEE

12/5/2 (Item 2 from file: 2)  
DIALOG(R)File 2:INSPEC  
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6164197

**Title:** PDAs solve the crime

**Author(s):** Keenan, M.L.

**Journal:** Communications News vol.36, no.1 p.46, 49

**Publisher:** Nelson Publishing,

**Publication Date:** Jan. 1999 **Country of Publication:** USA

**CODEN:** CMUNA9 **ISSN:** 0010-3632

**SICI:** 0010-3632(199901)36:1L.46:PSC;1-1

**Material Identity Number:** F947-1999-003

**Language:** English **Document Type:** Journal Paper (JP)

**Treatment:** Practical (P)

**Abstract:** The ability to send and receive information can mean life or death to police officers on patrol. When the Largo Police Department's **two-way** radio communication system became overburdened, the department decided to develop a system to allow officers direct access to critical information without the help of a dispatcher. The city of Largo, Fla. Located on the state's west coast, is the third-largest municipality in Pinellas County, and its police department currently has 130 officers assigned to a growing community. Laptops and PCs with fat-client software were tried but failed in the rough environment of a squad **car** in Florida's 98 degrees temperatures, with humidity at 90%. After less than four months of development, the MIS team at the city of Largo, using Prolifics' transactional systems development tool, unveiled a unique mobile communications solution. This new service, funded by a federal grant, is called the **PDA (Personal Digital Assistant)** Project and equips each of 16 pilot-test police patrol units with handheld Apple Newton e-Mate **PDAs** running a standard Internet Web browser. Data is transferred to these completely solid-state Newtons via an infrared port. The Newtons don't even have a floppy drive, so the solution involves no moving parts and no operating system. (0 Refs)

**Subfile:** D

**Descriptors:** data communication equipment; mobile communication; notebook computers; police

**Identifiers:** police officers; Largo Police Department; critical information access; Pinellas County; Prolifics transactional systems development tool; mobile communications; **personal digital assistants**; **PDA** Project; police patrol units; handheld Apple Newton e-Mate **PDAs**; Internet Web browser; data transfer; infrared port

**Class Codes:** D2120 (Public administration and law); D5010B (Portable computers); D4045 (Mobile communications)

Copyright 1999, IEE

**12/5/3 (Item 3 from file: 2)**

DIALOG(R)File 2:INSPEC

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03788260 INSPEC Abstract Number: B91003651

**Title:** High performance 'diamond-shaped' offset reflector antennas for SNG applications

**Author(s):** Watson, B.K.; McLaren, S.R.

**Author Affiliation:** ERA Technol. Ltd., Leatherhead, UK

**Conference Title:** IBC 1990. International Broadcasting Convention (Conf.

**Publ. No.**327) p.351-6

**Publisher:** IEE, London, UK

**Publication Date:** 1990 **Country of Publication:** UK xii+424 pp.

**Conference Sponsor:** IEE; IEEE; Int. Assoc. Broadcasting Manuf.; Royal Telev. Soc.; SMPTE

**Conference Date:** 21-25 Sept. 1990 **Conference Location:** Brighton, UK

**Language:** English **Document Type:** Conference Paper (PA)

**Treatment:** Applications (A); New Developments (N); Practical (P)

Abstract: The authors describe a novel, high performance antenna system for use in satellite news gathering (SNG) applications in the nominal receive (10.95-12.8 GHz) and transmit (14.0-14.5 GHz) bands. The antenna is intended for use within the Fixed Satellite Service (FSS) and is more than compliant with the mandatory CCIR and Eutelsat requirement for sidelobes and cross-polarization. In addition to the excellent electrical performance, the system is compact and lightweight, such that it is capable of being transported by a **scheduled** airline, helicopter, **automobile** and even hand carried to the site of a breaking news event. Finally, the antenna, combined with its associated electronics package, can be assembled, set up and be fully operational by a crew of two people, within a short time, to provide uplink video program material, together with **two - way** talk-back control. (2 Refs)

Subfile: B

Descriptors: broadcast antennas; electronic news gathering; microwave antennas; reflector antennas; satellite antennas; television antennas

Identifiers: SHF; **portable equipment**; CCIR requirements; compact lightweight design; diamond-shaped; offset reflector antennas; SNG applications; satellite news gathering; Fixed Satellite Service; Eutelsat requirement; sidelobes; cross-polarization; electrical performance; 10.95 to 12.8 GHz; 14 to 14.5 GHz

Class Codes: B5270B (Single antennas); B6430B (Electronic news gathering); B6250G (Satellite relay systems)

Numerical Indexing: frequency 1.095E+10 to 1.28E+10 Hz; frequency 1.4E+10 to 1.45E+10 Hz

12/5/4 (Item 4 from file: 2)

DIALOG(R) File 2:INSPEC

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03257891 INSPEC Abstract Number: B88069998

Title: **38th IEEE Vehicular Technology Conference: 'Telecommunications Freedom - Technology on the Move'** (Cat. No.88CH2622-9)

Publisher: IEEE, New York, NY, USA

Publication Date: 1988 Country of Publication: USA 706 pp.

Conference Sponsor: IEEE

Conference Date: 15-17 June 1988 Conference Location: Philadelphia, PA, USA

Language: English Document Type: Conference Proceedings (CP)

Abstract: The following topics were dealt with: mobile communication systems; **vehicle** location; spectral efficiency in digital mobile radio systems; modulation and detection techniques, **vehicle** terminal and **portable equipment** design; error correction codes; protocols; synchronization techniques; antennas and **two - way** signal boosters; code-division and time-division multiple-access systems; base station and terminal equipment design; satellite communications; packet switching and access protocols; digital channel modulation and detection; automotive electronics and transportation; radio propagation; digital speech coding; and channel coding. Abstracts of individual papers can be found under the relevant classification codes in this or other issues.

Subfile: B

Descriptors: antennas; encoding; error correction codes; mobile radio systems; modulation; multi-access systems; packet switching; protocols; radiowave propagation; satellite relay systems; speech analysis and processing

Identifiers: **vehicle** terminal equipment design; synchronisation techniques; code-division multiple access systems; base station equipment design; mobile communication systems; **vehicle** location; spectral efficiency; digital mobile radio systems; detection techniques; **portable**



**equipment** design; error correction codes; protocols; antennas; **two - way** signal boosters; time-division multiple-access systems; terminal equipment design; satellite communications; packet switching; access protocols; digital channel modulation; automotive electronics; transportation; radio propagation; digital speech coding; channel coding

Class Codes: B0100 (General electrical engineering topics); B6250F (Mobile radio systems); B6120B (Codes); B5270 (Antennas); B6250G (Satellite relay systems); B6150 (Communication switching theory); B5210C (Radiowave propagation); B6130 (Speech analysis and processing techniques)

**12/5/5 (Item 5 from file: 2)**

DIALOG(R)File 2:INSPEC

(c) 2003 Institution of Electrical Engineers. All rts. reserv.

00806457 INSPEC Abstract Number: B75034289

**Title: Trends in portable two way radio**

Author(s): Jones, A.M.

Author Affiliation: Pye Telecommunications Ltd., Cambridge, UK

Journal: Communications International vol.2, no.3 p.10, 12

Publication Date: March 1975 Country of Publication: UK

CODEN: CINTDZ ISSN: 0305-2109

Language: English Document Type: Journal Paper (JP)

Treatment: General, Review (G)

**Abstract:** Discusses the essential differences between a **portable** and a mobile **equipment** and outlines the developments of **vehicle** adaptors, which enable the portable to perform a useful role away from the **vehicle** portable power supplies, r.f. power modules, antennas used on portable equipments and the use of phase lock loop receiver. Discusses the advantages of modular construction techniques and the development of circuits for selective calling. (0 Refs)

Subfile: B

Descriptors: mobile antennas; mobile radio systems; modules; phase-locked loops; power supplies to apparatus

Identifiers: mobile radio systems; radio frequency power modules; portable **two way** radio; **vehicle** adaptors; portable power supplies; antennas; phase lock loop receiver; modular construction; selective calling

Class Codes: B1210 (Power electronics, supply and supervisory circuits); B1250 (Modulators, demodulators, discriminators and mixers); B5270B (Single antennas); B6250F (Mobile radio systems)

**12/5/6 (Item 1 from file: 233)**

DIALOG(R)File 233:Internet & Personal Comp. Abs.

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00537621 99IE06-217

**Devices market: not quite yet -- Prerequisite to an Internet devices boom is fundamental infrastructure that won't arrive until well into next decade**

Haskin, David; Zelnick, Nate

Internet World , June 21, 1999 , v5 n23 p21-22, 2 Page(s)

ISSN: 1081-3071

Languages: English

Document Type: Articles, News & Columns

Geographic Location: United States

Reports that the expected boom in Internet devices is hindered by the absence of an infrastructure. Mentions that Internet devices are peripherals that provide access, and they are not desktop or notebook computers. Mentions four roadblocks to mass acceptance, namely authoring

standards, Internetworking protocols, Internet telephone network and wireless data transmission. Explains that Internet **devices** range from **handheld** computers, wireless smart phones, television set-top boxes to **two - way** pagers, **automobile** electronics, and smart devices. Mentions that mass adoption of novel technologies would occur when compelling services meet the right ratio of performance to price. Explains that devices need to generate enough consumer interest to propel the interest of application vendors, content creators, and service providers in order to in turn generate consumer interest. Includes one table. (MEM)

Descriptors: Peripherals; Hardware; Trends; Infrastructure

**12/5/7 (Item 1 from file: 583)**

DIALOG(R)File 583:Gale Group Globalbase(TM)

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09206850

Hangups seen in law banning caller drivers

HONG KONG: NEW RULE TO BAN PHONE USE IN **CARS**

South China Morning Post (XKT) 07 Dec 1999 p.t1

Language: ENGLISH

The Hong Kong government has proposed to ban drivers from using **handheld** communications **devices** in early 2000. The offender could face fines of up to HK\$2,000. The taxi drives may be affected as **two way** radios are also covered, except the hands-free phones. According to an overseas study, the use of handheld phones could increase the risk of traffic accident by 4 times. The use of hands-free devices was not even better. The use of headsets could confuse sense of direction and prevent hearing of traffic or sirens. \*

PRODUCT: Cellular Radio Services (4811CR);

EVENT: Government Regulations (93);

COUNTRY: Hong Kong (9HON);

**12/5/8 (Item 1 from file: 256)**

DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.

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00106221 DOCUMENT TYPE: Review

**PRODUCT NAMES: AvantGo Server (690287); Microsoft Pocket Internet Explorer (646954); UP.Browser (688274)**

**TITLE: Browser Wars, In Miniature**

**AUTHOR: DeMocker, Judy**

**SOURCE: Internet World, v4 n9 p35(2) Mar 9, 1998**

**ISSN: 1097-8291**

**HOME PAGE: <http://www.iw.com>**

**RECORD TYPE: Review**

**REVIEW TYPE: Product Analysis**

**GRADE: Product Analysis, No Rating**

AvantGo Server from AvantGo, Microsoft Pocket Internet Explorer from Microsoft, TeleBrowser from Convergence, and the small-footprint browsers from WebSurfer, Unwired Planet, and Spyglass are all competing in the new small device browser market. Big players like Netscape, Oracle, IBM, and Sun are also expected to soon enter the market for devices such as **two -**

way pagers, wireless **personal digital assistants** , Web-enabled telephones, and set-top boxes. Although this market has not flourished as expected, browser makers are moving right ahead and even beginning to segment their products. Unwired Planet and Spyglass have developed products that give users the capability of downloading e-mail messages to small screens. Browsers may become customized for specific users and/or specific devices. AvantGo has already made inroads into the palmtop computer market. This is not a simple matter, because **Palm Pilot** devices from 3Com use an operating system that lacks the file and folder metaphor that a URL uses to find files. AvantGo has worked around this, and its product is used by Rosenbluth Travel to provide itineraries to customers and by **truckers** in need of fueling stations. Microsoft and WebSurfer have developed browsers for set-top boxes, while Convergence aims to push information to pagers and phones via e-mail with its TeleBrowser product.

COMPANY NAME: AvantGo Inc (639486); Microsoft Corp (112127); Openwave Systems Inc (692905)

SPECIAL FEATURE: Screen Layouts

DESCRIPTORS: Embedded Systems; Front Ends; Handhelds & Palmtops; Information Retrieval; Interactive Television; Internet Explorer; Internet Utilities; Mobile Computing; Paging; Thin Clients; User Interfaces

REVISION DATE: 20020130

Set	Items	Description
S1	0	AU=(VOLKEL A? OR VOLKEL, A?)
S2	2501523	VEHICLE OR LORRY OR LORRIES OR TRUCK? OR AUTOMOBILE? OR CAR OR CARS
S3	290874	(HANDHELD OR PORTABLE OR PERIPHERAL) (3N) (DEVICE? OR GADGET? OR EQUIPMENT) OR PDA OR PDAS OR PERSONAL() DIGITAL() ASSISTANT? ? OR PALMPILOT? ? OR PALM() PILOT? ? OR ORGANIZER? ?
S4	2401479	SCHEDUL? OR NAVIGAT? OR TIME() TABLE OR DIARY
S5	92715	BIDIRECTION? OR (BI OR TWO OR MULTI) () (WAY OR DIRECTIONAL) OR MULTI() WAY
S6	8367	S2(S) S3
S7	150	S6(S) S5
S8	113	S7 NOT PY>2001
S9	74	S8 NOT PD=20010424:20031110
S10	54	RD (unique items)

? show file

File 20:Dialog Global Reporter 1997-2003/Nov 10  
(c) 2003 The Dialog Corp.

File 476:Financial Times Fulltext 1982-2003/Nov 10  
(c) 2003 Financial Times Ltd

File 610:Business Wire 1999-2003/Nov 10  
(c) 2003 Business Wire.

File 613:PR Newswire 1999-2003/Nov 10  
(c) 2003 PR Newswire Association Inc

File 624:McGraw-Hill Publications 1985-2003/Nov 07  
(c) 2003 McGraw-Hill Co. Inc

File 634:San Jose Mercury Jun 1985-2003/Nov 08  
(c) 2003 San Jose Mercury News

File 810:Business Wire 1986-1999/Feb 28  
(c) 1999 Business Wire

File 813:PR Newswire 1987-1999/Apr 30  
(c) 1999 PR Newswire Association Inc

10/3,K/1 (Item 1 from file: 20)  
DIALOG(R)File 20:Dialog Global Reporter  
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24842958

**iTV: Watch This Space**

MEDIA WEEK

February 23, 2001

JOURNAL CODE: WMWK LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 1894

... core service. Games platforms are likely to be a pivotal part of this process, says **Two Way** TV UK managing director Matthew Tims, who believes 2001 could be the year when enhanced TV applications make their mark. **Two Way** TV runs interactive games channels on NTL and TeleWest, which allow four players to compete...

... each other and then see how they fared against others on the network. From spring, **Two Way** is launching a branded channel on ONdigital. According to Tims, the market is moving towards...

10/3,K/2 (Item 2 from file: 20)  
DIALOG(R)File 20:Dialog Global Reporter  
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16177848 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**It's 12 O'Clock: Where's Your Teenager? Elite Logistics Inc. and Track-A-Teen Inc. Team Up to Protect Young Drivers**

BUSINESS WIRE

April 16, 2001

JOURNAL CODE: WBWE LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 910

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... a secure Internet link, a two-way pager, an Internet access-enabled cellular phone, a **Palm Pilot VII**, or by contacting Elite's 24-hour Customer Support Control Center.

About Elite Logistics...

10/3,K/3 (Item 3 from file: 20)  
DIALOG(R)File 20:Dialog Global Reporter  
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15970293 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**Elite Brings Satellite Tracking to Rental Fleets**

BUSINESS WIRE

April 03, 2001

JOURNAL CODE: WBWE LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 830

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... a secure Internet link, a two-way pager, an Internet access-enabled cellular phone, a **Palm Pilot VII**, or by contacting Elite's 24-hour Customer Support Control Center.

About Elite Logistics...

10/3,K/4 (Item 4 from file: 20)  
DIALOG(R)File 20:Dialog Global Reporter  
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15837434

**PRNewswire Midwest Summary, Tuesday, March 27 to 4 P.M. EST**

PR NEWSWIRE

March 27, 2001

JOURNAL CODE: WPRW LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 1213

...2001 11:00 r f bc-OR-Auto-prices (BANDON) Consumers and Salespeople  
Agree: New **Car** Prices Are Too High DETU016 03/27/2001 11:18 r n  
bc-MI-Youth...

10/3,K/5 (Item 5 from file: 20)  
DIALOG(R)File 20:Dialog Global Reporter  
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15480663 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**Biztravel.com Selected As MyPalm Portal Beta Partner; Biztravel unwired Now  
Available to New Community of Mobile Users**

BUSINESS WIRE

March 06, 2001

JOURNAL CODE: WBWE LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 530

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... travelers to use Web-enabled mobile phones, two-way pagers, and  
other personal digital assistants ( **PDAs** ) to make air, hotel, and rental  
**car** reservations as well as to check flight status and availability.  
Offering all the cutting-edge...

10/3,K/6 (Item 6 from file: 20)  
DIALOG(R)File 20:Dialog Global Reporter  
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15379510

**Psion opens new route for mobile data**

**Psion will produce a portable smart digital radio as early as next year,  
offering the prospect of a secondary data source for cellular mobile  
devices.**

NEWSWIRE (VNU)

February 28, 2001

JOURNAL CODE: WNEW LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 340

... and you have a hefty power drain. But there will be market impetus  
from the **car** industry as DAB promises much better **car** radio reception.  
Clever processing makes a virtue of 'multi-path propagation' - bouncing  
radio signals, which can cause fading. The potential synergy between DAB  
broadcasts and **two - way** point-to-point cellular is similar to that  
between the fixed internet and satellites. But...

10/3,K/7 (Item 7 from file: 20)

DIALOG(R)File 20:Dialog Global Reporter  
(c) 2003 The Dialog Corp. All rts. reserv.

15378110 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**e-Power International Announces Colin Edwards as Worldwide Spokesperson for  
The Immobiliser's Motorcycle and Auto Security Products**

BUSINESS WIRE

February 28, 2001

JOURNAL CODE: WBWE LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 734

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... GPS Vision(TM) has the power to track and control a vehicle through a PDA, **two - way** pager, Internet-enabled cell phone or through the click of a mouse. **Car** owners receive the **vehicle** 's street address location, digital mapping, **car** speed and direction in seconds via the Internet. Parents may monitor the use of the family **car** when away on vacation. Or, if a driver accidentally locks the keys in the **car** , he or she can remotely unlock the door. Owners of service **trucks** can actually put an alarm sensor on a toolbox door and receive notification when someone...

... may also shut down their vehicles and equipment after hours, preventing unauthorized use. If a **vehicle** is stolen, for example, owners could use a **Palm Pilot** (TM) or other Internet-enabled device to send a command to track the **vehicle** by street location and speed, and then notify the police of the **car** 's exact location.

GPS Vision(TM) will work with any make or model vehicle on...

**10/3,K/8 (Item 8 from file: 20)**

DIALOG(R)File 20:Dialog Global Reporter  
(c) 2003 The Dialog Corp. All rts. reserv.

15305355 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**WebTech Wireless Launches End-To-End Wireless Vehicle Location System For  
GSM Operators**

CCN DISCLOSURE

February 23, 2001

JOURNAL CODE: WCCN LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 732

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... alternative to the bulky terminals of traditional fleet management systems. The in-vehicle PDA delivers **two - way** text messaging to the driver and in the future will act as a portal for...

**10/3,K/9 (Item 9 from file: 20)**

DIALOG(R)File 20:Dialog Global Reporter  
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15286707 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**(BW) WebTech Wireless Launches End-To-End Wireless Vehicle Location System  
For GSM Operators**

BUSINESS WIRE

February 22, 2001

JOURNAL CODE: WBWE LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 749

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... alternative to the bulky terminals of traditional fleet management systems. The in-vehicle PDA delivers **two - way** text messaging to the driver and in the future will act as a portal for...

**10/3,K/10 (Item 10 from file: 20)**  
DIALOG(R)File 20:Dialog Global Reporter  
(c) 2003 The Dialog Corp. All rts. reserv.

15248782 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**Sprint and Biztravel.com Deliver Mobile Business Travel Services Via Sprint  
PCS Wireless Web; Latest In Series of Mobile Announcements From  
biztravel**  
BUSINESS WIRE  
February 20, 2001  
JOURNAL CODE: WBWE LANGUAGE: English RECORD TYPE: FULLTEXT  
WORD COUNT: 706

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... customers to use Web-enabled mobile phones, two-way pagers, and other personal digital assistants ( **PDA**s ) to make air, **car** and hotel reservations as well as to check flight status and availability. Biztravel unwired provides...

**10/3,K/11 (Item 11 from file: 20)**  
DIALOG(R)File 20:Dialog Global Reporter  
(c) 2003 The Dialog Corp. All rts. reserv.

15247521 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**Revolve Design Launches RoadWriter, The First In-Vehicle Accessory,  
Allowing Users to Turn Their PalmOS Handheld into a Low-Cost Mobile  
Office/Communications Solution**  
BUSINESS WIRE  
February 20, 2001  
JOURNAL CODE: WBWE LANGUAGE: English RECORD TYPE: FULLTEXT  
WORD COUNT: 382

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... when used in conjunction with a GPS receiver and mapping or with a modem for **two - way** wireless communication. RoadWriter can be easily installed into the **vehicle** with a Quick Release, easy latch pedestal, with no need for drilling or permanent placement...

**10/3,K/12 (Item 12 from file: 20)**  
DIALOG(R)File 20:Dialog Global Reporter  
(c) 2003 The Dialog Corp. All rts. reserv.

15229782 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**Internet World Wireless 2001 Exhibitor Profiles; Conference and Exposition  
Begins This Week in New York**  
BUSINESS WIRE  
February 19, 2001  
JOURNAL CODE: WBWE LANGUAGE: English RECORD TYPE: FULLTEXT



WORD COUNT: 1379

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... T900) and Arch Webster 200 service (Motorola P935), as well as Handspring's Visor Deluxe **PDA** with Glenayre's @ctiveLink **two - way** wireless messaging module. Arch also will demonstrate the Sales Force Automation application; the Arch Message...

... email while remote, right from a device; and the first Arch-branded telemetry application -- Advanced **Vehicle** Location -- for tracking vehicles via a Web-based map.

Company: Atinav, Inc. Booth: 1569 Contact...

**10/3,K/13 (Item 13 from file: 20)**  
DIALOG(R)File 20:Dialog Global Reporter  
(c) 2003 The Dialog Corp. All rts. reserv.

15031819 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**AnyDevice Forms Technology Alliance with iWay**  
PR NEWSWIRE  
February 07, 2001  
JOURNAL CODE: WPRW LANGUAGE: English RECORD TYPE: FULLTEXT  
WORD COUNT: 567

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... the enterprise network to Internet-enabled mobile devices such as PDAs, Internet-enabled cell phones, **two - way** pagers, kiosks, **automobiles** and even landline telephones. These companies can now focus on improving business operations rather than...

**10/3,K/14 (Item 14 from file: 20)**  
DIALOG(R)File 20:Dialog Global Reporter  
(c) 2003 The Dialog Corp. All rts. reserv.

15031767 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**Biztravel.com Providing AT&T Digital PocketNet Customers with Wireless Travel Services; Expands Distribution of biztravel Wireless Air, Car and Hotel Booking Services**  
BUSINESS WIRE  
February 07, 2001  
JOURNAL CODE: WBWE LANGUAGE: English RECORD TYPE: FULLTEXT  
WORD COUNT: 595

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... customers to use Web-enabled mobile phones, two-way pagers, and other personal digital assistants ( **PDAs** ) to make air, **car** and hotel reservations as well as to check flight status and availability. Biztravel unwired provides...

**10/3,K/15 (Item 15 from file: 20)**  
DIALOG(R)File 20:Dialog Global Reporter  
(c) 2003 The Dialog Corp. All rts. reserv.

14989215 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**Immobiliser Launches GPS Vision, World's First Over-The-Counter Internet  
GPS Tracking System For Cars**

BUSINESS WIRE

February 05, 2001

JOURNAL CODE: WBWE LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 724

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... car, he or she can remotely unlock the door through an Internet-enabled cell phone, **two - way** pager or **PDA**.

Business owners may find this device particularly useful. Owners of service trucks can actually put...

...even start a vehicle engine from a distance, even from another state.

With a **PDA**, **two - way** pager or e-mail enabled cell phone, **car** owners can track and control their **vehicle** while walking down the street. If a **vehicle** is stolen, for example, owners could use a **Palm Pilot** (TM) or other Internet-enabled device to send a command to track the **vehicle** by street location and speed, and then notify the police of the **car** 's exact location.

"GPS Vision(TM) is revolutionizing the auto aftermarket industry by bringing this...

**10/3,K/16 (Item 16 from file: 20)**

DIALOG(R)File 20:Dialog Global Reporter

(c) 2003 The Dialog Corp. All rts. reserv.

14671901 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**Elite Logistics Inc. Completes PageTrack Distribution Agreement With  
Motorola Inc.**

BUSINESS WIRE

January 16, 2001

JOURNAL CODE: WBWE LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 792

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... Internet link, **PageTrack(R)** 2 owners can communicate with, and remotely manage functions on the **vehicle** via a **two - way** pager, an Internet-enabled cellular phone or **PDA**., or by calling Elite Logistic's 24-hour Customer Support Control Center.

**PageTrack(R)** 2...

**10/3,K/17 (Item 17 from file: 20)**

DIALOG(R)File 20:Dialog Global Reporter

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14548301 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**TechTV Announces Winners of 'Best of CES'**

PR NEWSWIRE

January 08, 2001

JOURNAL CODE: WPRW LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 1067

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... Email Devices Hughes Network Systems -- Satellite Return DirecPC

Finalists Hughes Network Systems -- Satellite Return DirecPC- **Two way** satellite-based Internet access Sony -- E-Villa-Internet Appliance Qubit -- Orbit-Wireless webpad Winner: Digital...

... Very sleek clamshell cell phone Winner: Auto, Marine, and RV: If it's For Your **Car , Truck ,** or Boat XM -- Satellite Radio System Finalists XM -- Satellite Radio System -Satellite Radio System Donnelly Corporation -- VideoMirror with BabyVue and ReversAid-In **vehicle** camera system to spy on baby and back of **car** Sirius Radio -- Sirius Satellite Radio Winner: Specialty Audio: High End Audio Hardware Sonigistix -- Monsoon FPF...

**10/3,K/18 (Item 18 from file: 20)**  
DIALOG(R)File 20:Dialog Global Reporter  
(c) 2003 The Dialog Corp. All rts. reserv.

14107092 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**SalesMountain Announces Alliances with AT&T Wireless and Sprint PCS, Expanding Dominance of Wireless Distribution Network**  
BUSINESS WIRE  
December 06, 2000  
JOURNAL CODE: WBWE LANGUAGE: English RECORD TYPE: FULLTEXT  
WORD COUNT: 557

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... paging devices and PDAs. Future developments in the wireless market include delivering Sales content to **two - way** messaging and voice-enabled devices for personal and **automobile** use. SalesMountain is ideally suited to the growing mobile market, giving consumers instant access to...

**10/3,K/19 (Item 19 from file: 20)**  
DIALOG(R)File 20:Dialog Global Reporter  
(c) 2003 The Dialog Corp. All rts. reserv.

13660411 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**American Trucking Associations & NetAlive Team to Make Trucking Information Available Wirelessly**  
PR NEWSWIRE  
November 07, 2000  
JOURNAL CODE: WPRW LANGUAGE: English RECORD TYPE: FULLTEXT  
WORD COUNT: 513

...members and Transport Topics subscribers using Web-enabled handheld communications devices such as Palm Pilots, **two - way** digital pagers and cell phones. NetAlive is a software company that specializes in enabling corporations...

**10/3,K/20 (Item 20 from file: 20)**  
DIALOG(R)File 20:Dialog Global Reporter  
(c) 2003 The Dialog Corp. All rts. reserv.

13125255 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**Nexterna Announces Record Production Orders for OptiSoft In-Vehicle Computers**  
BUSINESS WIRE  
October 03, 2000  
JOURNAL CODE: WBWE LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 499

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... data over a wireless link - in vehicles. The OptiSoft applications installed on the ARCs provide **two - way** messaging; collect sensor data for engine diagnostics, fuel and pressure; and track **vehicle** location.

The communications systems inside and/or external to the ARC provide complete wireless data...

**10/3,K/21 (Item 21 from file: 20)**

DIALOG(R)File 20:Dialog Global Reporter

(c) 2003 The Dialog Corp. All rts. reserv.

12709307 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**Novatel Wireless & VisionAIR Enter Strategic Marketing Agreement; Companies Partner to Provide Wireless Data Solutions to Vertical Customers**

BUSINESS WIRE

September 06, 2000

JOURNAL CODE: WBWE LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 629

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... modems are wireless data accessories for Palm handheld devices. All the Novatel Wireless modems provide **two - way** wireless access to email, corporate LANs and the Internet via the Cellular Digital Packet Data...

**10/3,K/22 (Item 22 from file: 20)**

DIALOG(R)File 20:Dialog Global Reporter

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12495074 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**Rosenbluth Interactive Receives CIO-100 Award For Customer Service Excellence**

PR NEWSWIRE

August 21, 2000

JOURNAL CODE: WPRW LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 603

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... of devices including Web-enabled phones, two-way pager devices (e.g., RIM pagers), and **personal digital assistants** (e.g., Palm and Handspring Visor devices).

"It is our mission to exceed our customers..."

**10/3,K/23 (Item 23 from file: 20)**

DIALOG(R)File 20:Dialog Global Reporter

(c) 2003 The Dialog Corp. All rts. reserv.

12103662 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**Tegic Communications Establishes Offices In Beijing And Hong Kong; Company Appoints Steve Kung As Director Of Business Development And General Manager For Greater China**

CCN DISCLOSURE

July 25, 2000

JOURNAL CODE: WCCN LANGUAGE: English RECORD TYPE: FULLTEXT  
WORD COUNT: 814

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... many information devices, including TV set-top boxes, PDAs, remote controls, kiosks, automobile multimedia products, **two - way** pagers and more. For the Chinese language, T9 Text Input supports Simplified and Traditional stroke...

**10/3,K/24 (Item 24 from file: 20)**  
DIALOG(R)File 20:Dialog Global Reporter  
(c) 2003 The Dialog Corp. All rts. reserv.

11539687 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**Elite Logistics, Inc. Signs PageTrack-TM- Distribution Agreement With Omega Research & Development**  
BUSINESS WIRE  
June 16, 2000  
JOURNAL CODE: WBWE LANGUAGE: English RECORD TYPE: FULLTEXT  
WORD COUNT: 926

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... on their vehicle via a two-way pager, an Internet access-enabled cellular phone or **Palm Pilot PDA**, or by calling Elite's 24-hour Customer Support Control Center.  
PageTrack(TM) command capabilities...

**10/3,K/25 (Item 25 from file: 20)**  
DIALOG(R)File 20:Dialog Global Reporter  
(c) 2003 The Dialog Corp. All rts. reserv.

11480369 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**Galileo International Launches First Wireless Travel E-Service For B2B, B2C Markets**  
PR NEWSWIRE  
June 13, 2000  
JOURNAL CODE: WPRW LANGUAGE: English RECORD TYPE: FULLTEXT  
WORD COUNT: 1139

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... and two-way pagers, Wireless Application Protocol (WAP) cell phones and browser-based, Web-enabled **personal digital assistants ( PDAs )**. No wireless carrier contracts are required, as long as the carrier allows bookmarking of the...

**10/3,K/26 (Item 26 from file: 20)**  
DIALOG(R)File 20:Dialog Global Reporter  
(c) 2003 The Dialog Corp. All rts. reserv.

10606862 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**Elite Logistics Inc. Announces Memorandum of Understanding With Motorola Latin America and Caribbean Region**  
BUSINESS WIRE  
April 17, 2000

JOURNAL CODE: WBWE LANGUAGE: English RECORD TYPE: FULLTEXT  
WORD COUNT: 709

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... communicate with, and remotely manage, functions on the vehicle via a two-way pager, a **Palm Pilot PDA**, an Internet access-enabled cellular phone or by calling Elite's 24-hour Customer Support...

**10/3,K/27 (Item 27 from file: 20)**  
DIALOG(R)File 20:Dialog Global Reporter  
(c) 2003 The Dialog Corp. All rts. reserv.

08984903 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**Clifford Electronics and InfoMove Develop Web-Driven Automotive Security and Information Products and Services**  
PR NEWSWIRE  
January 05, 2000  
JOURNAL CODE: WPRW LANGUAGE: English RECORD TYPE: FULLTEXT  
WORD COUNT: 459

... will allow individual consumers to access personalized, real-time, location-specific Internet content from their **cars**. When the InfoTrack 1 accesses the system it reports its location so all responses are specific to that location. For navigation, the customer uses a **PDA** or other Internet-enabled device to select a destination on the InfoMove navigation web page...

... turn-by-turn directions as the driver proceeds. This technology also allows access to a **car**'s security and other systems via the Internet. A **car** dealer, for example, could lock every **car** in the lot using his web browser. On **cars** with remote starters, a worker in a Minnesota office tower could warm up his **car** just before leaving work on a cold winter day.

**10/3,K/28 (Item 28 from file: 20)**  
DIALOG(R)File 20:Dialog Global Reporter  
(c) 2003 The Dialog Corp. All rts. reserv.

08040876 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**GoAmerica and Avis Rent A Car, Inc. Sign Wireless E-Commerce Partnership Agreement**  
BUSINESS WIRE  
November 02, 1999  
JOURNAL CODE: WBWE LANGUAGE: English RECORD TYPE: FULLTEXT  
WORD COUNT: 605

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... will be commercially available by early 2000 on a number of wireless devices such as **two-way** messengers from Research in Motion (Nasdaq:RIMM) (TSE:RIM), **PalmPilots** (TM) and Windows CE handheld computers.

"Our wireless solutions enable today's mobile professionals access...

**10/3,K/29 (Item 29 from file: 20)**  
DIALOG(R)File 20:Dialog Global Reporter

(c) 2003 The Dialog Corp. All rts. reserv.

06491365

**MATSUSHITA: ATR-I and Matsushita developed English- Japanese bi-directional speech translation technology**

M2 PRESSWIRE

August 02, 1999

JOURNAL CODE: WMPR LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 161

... devices such as laptop PCs. On the other hand, Matsushita has commercialized such products as **car** -navigation systems, mobile phones and word processors using its noise-robust speech recognition and compact...

**10/3,K/30 (Item 30 from file: 20)**

DIALOG(R)File 20:Dialog Global Reporter

(c) 2003 The Dialog Corp. All rts. reserv.

03051632

**Sharp Introduces Fast, Low Power Compact Flash Cards**

BUSINESS WIRE

October 08, 1998

JOURNAL CODE: WBWE LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 628

... high demand, portable information tools. Applications include digital cameras and cellular phones, PDAs, personal communicators, **two - way** pagers, audio recorders, set-top boxes, **car** navigation and network and telecommunications equipment -- an ever-increasing range of products that allow people...

**10/3,K/31 (Item 31 from file: 20)**

DIALOG(R)File 20:Dialog Global Reporter

(c) 2003 The Dialog Corp. All rts. reserv.

03007296

**New Wind River Products Provide Optimized HTML Technology for Customized Browsers and GUIs for Embedded Computers**

PR NEWSWIRE

October 05, 1998

JOURNAL CODE: WPRW LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 1143

... UI software and embedded applications is provided by a technology known as LiveConnect, which permits **bi - directional** communication between user interface software and application code without interfering with a device's real...

... to them." eNavigator eNavigator is appropriate for information appliances, kiosks, televisions, set-top boxes, and **handheld devices** that require a full Web browser for retrieving and displaying information. eNavigator's software kit...

**10/3,K/32 (Item 32 from file: 20)**

DIALOG(R)File 20:Dialog Global Reporter

(c) 2003 The Dialog Corp. All rts. reserv.

02963909

**Wireless One Gains Expanded Use Of Spectrum From FCC Two-Way Ruling**

PR NEWSWIRE

September 29, 1998

JOURNAL CODE: WPRW LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 806

... that wireless access reduces the time to market and the capital expenses of connection and **peripheral equipment** compared to wired service. Our product has performed flawlessly in adverse weather conditions. Wireless access...

... additional spectrum assures future capacity." Chief Operating Officer Ernest D. Yates reported, "The Warp One **two - way** high-speed wireless Internet access service has been successful and well received first in Jackson...

... markets to be launched. Wireless One intends to remain in the forefront of providers offering **two - way**, high-speed communications services. Consumers now will have added opportunities and choices for high-speed...

... Market demand will drive our choice of services." Yates echoed Burkhalter's excitement, "This FCC **two - way** ruling enables Wireless One and other wireless providers to reduce the time to market of...

...to move forward aggressively with our business plan now that the FCC has allowed for **two - way** services on MMDS and ITFS spectrum." Burkhalter concluded, "The leadership of the Wireless Communications Association...

**10/3,K/33 (Item 33 from file: 20)**

DIALOG(R)File 20:Dialog Global Reporter

(c) 2003 The Dialog Corp. All rts. reserv.

01538655 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**Motorola Extends Series 500 Integrated Wireless Modems into Germany**

BUSINESS WIRE

May 04, 1998 11:45

JOURNAL CODE: WBWE LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 539

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... as automatic vehicle location (AVL), computing, dispatch, electronic funds transfer point of sale (EFTPOS) and **two - way** messaging, as well as telemetry applications such as metering, monitoring, security and vending. Each of...

**10/3,K/34 (Item 34 from file: 20)**

DIALOG(R)File 20:Dialog Global Reporter

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01228298 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**Post Communications Launches InSync Online Relationship Marketing Service for 3Com's Palm Computing Co.**

BUSINESS WIRE

March 24, 1998 14:59

JOURNAL CODE: WBWE LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 736



(USE FORMAT 7 OR 9 FOR FULLTEXT)

... Palm Computing chose Post's Dialogue Architecture as its technology platform to create a true **two - way** dialogue with customers and users. "The Post solution enables us to directly engage with customers...

... and respect. Palm's loyal customers want to learn more about how to use the **PalmPilot** and the new Palm III **organizers**, as well as how to enhance their experience through the many third-party products available...

...of the online medium and helps companies unlock the potential of the web as a **vehicle** to understand and respectfully communicate with customers. "Internet Technology resources are stretched razor-thin just...

10/3,K/35 (Item 1 from file: 476)  
DIALOG(R)File 476:Financial Times Fulltext  
(c) 2003 Financial Times Ltd. All rts. reserv.

0008012252 BOFECD5AGQFT  
**FT IT Review of Information Technology (3): Suppliers race to win market share - Portable computers / Lightweight but powerful notebook PCs have become mainstream business tools**  
PAUL TAYLOR  
Financial Times, P III  
Wednesday, May 3, 1995  
DOCUMENT TYPE: NEWSPAPER LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
Word Count: 1,511

...lead to a new surge of interest in portable computing.

'Despite having received mixed reviews, **PDA**s and other pen-enhanced mobile platforms are finding acceptance in **trucking**, health care, education, retail, public safety and other industries,' says the Price Waterhouse technology forecast. 'Further advances in mobile hardware and one-way and **two - way** wireless communications have enabled new types of application development in these industries. The market for **PDA**s will grow with the arrival of second-and third-generation products,' the report adds.  
Future...

10/3,K/36 (Item 1 from file: 610)  
DIALOG(R)File 610:Business Wire  
(c) 2003 Business Wire. All rts. reserv.

00471426 20010228059B0254 (USE FORMAT 7 FOR FULLTEXT)  
**e-Power International Announces Colin Edwards as Worldwide Spokesperson for The Immobiliser's Motorcycle and Auto Security Products-Motorcycle Racing Champion to Promote New GPS Vision(TM) and Other High-Tech Products**  
Business Wire  
Wednesday, February 28, 2001 08:02 EST  
JOURNAL CODE: BW LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
DOCUMENT TYPE: NEWSWIRE  
WORD COUNT: 739

...GPS Vision(TM) has the power to track and control a vehicle through a PDA,  
**two - way** pager, Internet-enabled cell phone or through the click of a mouse.

Car owners receive the vehicle 's street address location, digital mapping, car speed and direction in seconds via the Internet. Parents may monitor the use of the family car when away on vacation. Or, if a driver accidentally locks the keys in the car , he or she can remotely unlock the door. Owners of service trucks can actually put an alarm sensor on a toolbox door and receive notification when someone...

...may also shut down their vehicles and equipment after hours, preventing unauthorized use. If a vehicle is stolen, for example, owners could use a Palm Pilot (TM) or other Internet-enabled device to send a command to track the vehicle by street location and speed, and then notify the police of the car 's exact location.

GPS Vision(TM) will work with any make or model vehicle on...

10/3,K/37 (Item 2 from file: 610)  
DIALOG(R)File 610:Business Wire  
(c) 2003 Business Wire. All rts. reserv.

00466076 20010220051B4843 (USE FORMAT 7 FOR FULLTEXT)  
**Revolve Design Launches RoadWriter, The First In-Vehicle Accessory, Allowing Users to Turn Their PalmOS Handheld into a Low-Cost Mobile Office/Communications Solution-Utilizing an integrated Touch-Type Keyboard and...**  
Business Wire  
Tuesday, February 20, 2001 09:05 EST  
JOURNAL CODE: BW LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
DOCUMENT TYPE: NEWSWIRE  
WORD COUNT: 382

With RoadWriter, users enjoy close proximity and secure placement of the Palm organizer in a vehicle , while relying on continuous usage when used in conjunction with a GPS receiver and mapping or with a modem for two - way wireless communication. RoadWriter can be easily installed into the vehicle with a Quick Release, easy latch pedestal, with no need for drilling or permanent placement...

10/3,K/38 (Item 3 from file: 610)  
DIALOG(R)File 610:Business Wire  
(c) 2003 Business Wire. All rts. reserv.

00456565 20010205036B5124 (USE FORMAT 7 FOR FULLTEXT)  
**Immobiliser Launches GPS Vision, World's First Over-The-Counter Internet GPS Tracking System For Cars-Houston Drivers First to Try New Wireless Technology to Protect, Monitor Cars**  
Business Wire  
Monday, February 5, 2001 14:42 EST  
JOURNAL CODE: BW LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
DOCUMENT TYPE: NEWSWIRE

WORD COUNT: 730

GPS Vision(TM) has the power to track and control a **vehicle** with just the click of a mouse. **Car** owners receive the **vehicle** 's street address location, digital mapping, **car** speed and direction in seconds via the Internet. For example, parents on vacation in the Bahamas can receive an alarm notification and shut down the operation of their **car** in Houston when their child is out on a joyride in the family **car** . Or, if a driver accidentally locks the keys in the **car** , he or she can remotely unlock the door through an Internet-enabled cell phone, **two - way** pager or **PDA** .

Business owners may find this device particularly useful. Owners of service trucks can actually put...

...even start a vehicle engine from a distance, even from another state.

With a **PDA**, **two - way** pager or e-mail enabled cell phone, **car** owners can track and control their **vehicle** while walking down the street. If a **vehicle** is stolen, for example, owners could use a **Palm Pilot** (TM) or other Internet-enabled device to send a command to track the **vehicle** by street location and speed, and then notify the police of the **car** 's exact location.

"GPS Vision(TM) is revolutionizing the auto aftermarket industry by bringing this...

10/3,K/39 (Item 4 from file: 610)  
DIALOG(R)File 610:Business Wire  
(c) 2003 Business Wire. All rts. reserv.

00442327 20010116016B0789 (USE FORMAT 7 FOR FULLTEXT)  
**Elite Logistics Inc. Completes PageTrack Distribution Agreement With Motorola Inc.-Agreement Opens Up Latin America and the Caribbean Region for the Distribution of Elite's PageTrack(R) Intelligent Vehicle Systems**  
Business Wire  
Tuesday, January 16, 2001 10:16 EST  
JOURNAL CODE: BW LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
DOCUMENT TYPE: NEWSWIRE  
WORD COUNT: 786

...a GPS receiver and Motorola's CreataLink(R)  
2XT transceiver utilizing Motorola's ReFLEX(R) **two - way** wireless telemetry technology over the SkyTel paging network. PageTrack(R) 2 monitors, tracks (including via...

...Internet link, PageTrack(R) 2 owners can communicate with, and remotely manage functions on the **vehicle** via a **two - way** pager, an Internet-enabled cellular

phone or PDA , or by calling Elite Logistic's 24-hour Customer Support Control Center.

PageTrack(R) 2 command capabilities include the unlocking of a vehicle 's doors

when the keys have been locked inside, remotely commanding the ignition to start and warm up the vehicle on cold mornings or cool it down in warm weather, as well as many other value-added functions. PageTrack(R) 2 capabilities also include monitoring sensors on a vehicle or trailer (e.g.

door open/close), and notification of events including alarm or airbag...

...via a variety of communications means that the system is alarmed, thus indicating that their vehicle may be in the process of being stolen. The

owner then can instruct the PageTrack(R) 2 unit to trigger an installed alarm,

sound the horn, disable the vehicle and/or notify local law enforcement of the

vehicle 's location.

About Elite Logistics Inc.

Founded in 1997, Elite Logistics Inc. is the parent...

10/3,K/40 (Item 5 from file: 610)

DIALOG(R)File 610:Business Wire

(c) 2003 Business Wire. All rts. reserv.

00423266 20001206341B1244 (USE FORMAT 7 FOR FULLTEXT)

**SalesMountain Announces Alliances with AT&T Wireless and Sprint PCS, Expanding Dominance of Wireless Distribution Network-SalesMountain Delivers Even Greater Consumer Access to Retailers' Sales(TM) Messages**

Business Wire

Wednesday, December 6, 2000 13:31 EST

JOURNAL CODE: BUSINESS WIRE, COMTEX LANGUAGE: ENGLISH RECORD TYPE:

FULLTEXT

DOCUMENT TYPE: NEWSWIRE

WORD COUNT: 548

...has furthered its technology to also provide Sales content to alpha-numeric paging devices and PDAs . Future developments in the wireless

market include delivering Sales content to two - way messaging and voice-enabled

devices for personal and automobile use. SalesMountain is ideally suited to

the growing mobile market, giving consumers instant access to...

10/3,K/41 (Item 6 from file: 610)

DIALOG(R)File 610:Business Wire

(c) 2003 Business Wire. All rts. reserv.

00377027 20001003277B3579 (USE FORMAT 7 FOR FULLTEXT)

**Nexterna Announces Record Production Orders for OptiSoft In-Vehicle Computers-Will manufacture more than 2,600 wireless data communication computers to be used for Mobile Resource Management**

Business Wire

Tuesday, October 3, 2000 12:53 EDT

JOURNAL CODE: BW LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
DOCUMENT TYPE: NEWSWIRE  
WORD COUNT: 489

...Users may plug in other communications devices such as laptops, modems and personal digital assistants ( **PDA**s ), and peripherals such as printers, scanners and digital cameras. The ARC computer from Nexterna enables automatic **vehicle** location tracking, messaging between mobile workers and the central office plus mobile telemetry - using a...

...data over a wireless link - in vehicles. The OptiSoft applications installed on the ARCs provide **two - way** messaging; collect sensor data for engine diagnostics, fuel and pressure; and track **vehicle** location.

The communications systems inside and/or external to the ARC provide complete wireless data...

10/3,K/42 (Item 7 from file: 610)  
DIALOG(R)File 610:Business Wire  
(c) 2003 Business Wire. All rts. reserv.

00275611 20000509130B6150 (USE FORMAT 7 FOR FULLTEXT)  
**Clare is First to Market With Column Driver Integrated Circuit for OLED Displays; This is The Initial Offering of a Total Integrated OLED Solution**  
Business Wire  
Tuesday, May 9, 2000 09:02 EDT  
JOURNAL CODE: BW LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
DOCUMENT TYPE: NEWSWIRE  
WORD COUNT: 517

TEXT:  
...for organic light emitting diode (OLED) displays. Ideally suited for applications such as cell phones, **PDA**s, **car** navigation systems and small televisions, this is the first driver for the emerging OLED market...

...key features of the versatile 192 column MXED101 include cascading multiple ICs for larger display, **bi - directional** data transfer, programmable constant current output gain to ensure easy and convenient adjustment, the option...

10/3,K/43 (Item 8 from file: 610)  
DIALOG(R)File 610:Business Wire  
(c) 2003 Business Wire. All rts. reserv.

00257384 20000417108B7380 (USE FORMAT 7 FOR FULLTEXT)  
**(ELOGE) (MOT) Elite Logistics Inc. Announces Memorandum of Understanding With Motorola Latin America and Caribbean Region**  
Business Wire  
Monday, April 17, 2000 10:52 EDT

JOURNAL CODE: BW LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
DOCUMENT TYPE: NEWSWIRE  
WORD COUNT: 744

...PageTrack(TM) owners can communicate with, and remotely manage, functions on the vehicle via a **two - way** pager, a **Palm Pilot PDA**, an Internet access-enabled cellular phone or by calling Elite's 24-hour Customer Support Control Center. PageTrack(TM) command capabilities can include the unlocking of a **vehicle's** doors when the keys have been locked inside, remotely commanding the ignition to start...  
...added functions. In addition to monitoring location, PageTrack(TM) capabilities include monitoring sensors on the **vehicle** or trailer (e.g. door open/close) and notification of events such as alarm or...

10/3,K/44 (Item 9 from file: 610)  
DIALOG(R)File 610:Business Wire  
(c) 2003 Business Wire. All rts. reserv.

00190238 20000209040B5706 (USE FORMAT 7 FOR FULLTEXT)  
**Revolve Design to Launch the First Palm-Based, Low-Cost Mobile Office/Communications Solutions for Enterprise, Trucking, Transportation, Field Service, Military and Medical Industries**  
Business Wire  
Wednesday, February 9, 2000 10:57 EST  
JOURNAL CODE: BW LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
DOCUMENT TYPE: NEWSWIRE  
WORD COUNT: 390

TEXT:  
...through port connection. Users can enjoy close proximity and secure placement of the Palm(TM) **organizer** in a **vehicle**, while relying on continuous usage when used in conjunction with a GPS receiver and mapping or with a modem for **two - way** wireless communication. The Palm(TM) can quickly be installed and removed from UniMount with the...

...to mount their handheld, a keyboard for easy data entry/access and enhanced tools for **two - way** wireless communications," says Michael Shawver, president of Revolve Design.

10/3,K/45 (Item 1 from file: 613)  
DIALOG(R)File 613:PR Newswire  
(c) 2003 PR Newswire Association Inc. All rts. reserv.

00232151 19991214DATU030 (USE FORMAT 7 FOR FULLTEXT)  
**Elite Logistics, Inc. Completes Acquisition**  
PR Newswire  
Tuesday, December 14, 1999 14:17 EST  
JOURNAL CODE: PR LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
DOCUMENT TYPE: NEWSWIRE

WORD COUNT: 548

...transit. PageTrack(TM) allows the owner to remotely manage functions on the vehicle via a **two - way** pager, a **Palm Pilot**

**PDA** , an Internet access-enabled cellular phone, a secure Internet link, or by calling Elite's...

**10/3,K/46 (Item 1 from file: 634)**

DIALOG(R)File 634:San Jose Mercury

(c) 2003 San Jose Mercury News. All rts. reserv.

10728080

**IN OTHER NEWS**

San Jose Mercury News (SJ) - Tuesday, August 15, 2000

By: Mercury News Wire Services

Edition: Morning Final Section: Front Page: 11A

Word Count: 173

**TEXT:**

...the hall. Voter.com kiosks allow delegates to keep track of meetings and parties. Donated **cars** have global-positioning systems. And **two - way** pagers connect reporters,conventioners and **organizers** with their home offices.

(box) Former President Carter and an actor who plays a president...

**10/3,K/47 (Item 2 from file: 634)**

DIALOG(R)File 634:San Jose Mercury

(c) 2003 San Jose Mercury News. All rts. reserv.

07789183

**YOUR HOME IS QUAKE-PROOF. NOW WORRY ABOUT ITS CONTENTS**

San Jose Mercury News (SJ) - Saturday, October 15, 1994

By: BRODERICK PERKINS, Mercury News Consumer Writer

Edition: Morning Final Section: Home Page: 11E

Word Count: 795

... with fasteners, the gear includes survival kits of varying sizes for both the home and **car** , solar-DC-battery powered AM-FM radios, battery powered citizen-band and shortwave radios, other **two - way** radios, flash lights, fire safety **equipment** , water storage tanks, **portable** commodes and other sanitary supplies, small individual to corporate-size medical kits that treat up...

**10/3,K/48 (Item 1 from file: 813)**

DIALOG(R)File 813:PR Newswire

(c) 1999 PR Newswire Association Inc. All rts. reserv.

1029146

DCTU022

**ORBCOMM to Buy 10 Gateway Earth Stations From Scientific-Atlanta, Inc.**

DATE: December 3, 1996

12:38 EST

WORD COUNT: 527

...Olympic Games in Atlanta, Georgia.

ORBCOMM is a mobile satellite service provider offering low-cost, **two - way** message and data communications globally through national licensees and value-added resellers. The first two satellites were launched in April 1995 and are providing initial commercial **two - way** communication and position determination services. A constellation of up to 36 satellites is planned to...

...messaging, automotive and maritime communications, remote industrial asset monitoring, emergency rescue for remote recreation, stolen **vehicle** recovery and **two - way** Internet e-mail communications for desk-top, laptop or palm-top computers or **personal digital assistants**.

ORBCOMM is a partnership owned by Orbital Sciences Corporation (Nasdaq: ORBI), Teleglobe Inc. of Canada...

10/3,K/49 (Item 2 from file: 813)  
DIALOG(R) File 813:PR Newswire  
(c) 1999 PR Newswire Association Inc. All rts. reserv.

1013758 NEM015A  
**SmartRoute Systems Cambridge, MA to Present at Venture Market East Conference**

DATE: October 28, 1996 11:01 EST WORD COUNT: 465

...cameras located at crucial intersections throughout the metropolitan area; an elaborate network of regularly scheduled **two - way** radio and cellular phone probes; electronic scanners; fixed-wing aircraft; direct communication links with a...

...landline telephone (POTS), cellular carriers, cable TV, traditional radio and TV, on-line services, commercial **vehicle** communication systems, and pagers. New delivery systems and joint marketing relationships are being developed for servicing **PDA's**, alternative telephony providers, high-speed Internet access programming packages, interactive television and in- **vehicle** navigational devices.

In September of 1992, the Federal Highway Administration and the Massachusetts Highway Department...

10/3,K/50 (Item 3 from file: 813)  
DIALOG(R) File 813:PR Newswire  
(c) 1999 PR Newswire Association Inc. All rts. reserv.

0900939 FLTH020  
**ILLINOIS POWER STREAMLINES DISPATCH OPERATIONS, OPTIMIZES PRODUCTIVITY WITH RAM MOBILE DATA WIRELESS SOLUTION; UTILITY GAINS COMPETITIVE EDGE THROUGH ENHANCED CUSTOMER SERVICE**

DATE: January 11, 1996 12:58 EST WORD COUNT: 913

...computer-aided dispatch and scheduling software, Telxon 1184 mobile data terminals (MDTs) and RAM's



**two - way** , wireless data communications service. Technicians will be able to send and receive real-time information from dispatchers anytime, from virtually anywhere . The pen-based Telxon MDTs are **portable , vehicle - docked devices** .

By June 1996, IP expects to have rolled out its wireless solution to 400 of...

**10/3,K/51 (Item 4 from file: 813)**  
DIALOG(R)File 813:PR Newswire  
(c) 1999 PR Newswire Association Inc. All rts. reserv.

0859243 DC004  
**ORBITAL AND TELEGLOBE SIGN FINAL AGREEMENTS FOR 36-SATELLITE ORBCOMM SYSTEM**

DATE: September 13, 1995 09:30 EDT WORD COUNT: 782

...person-to-person global messaging,  
automotive and maritime communications, industrial asset monitoring,  
emergency rescue, stolen **vehicle** recovery and **two - way** e-mail  
communications for desk-top, laptop or palm-top computers or **personal digital assistants ( PDAs )**.

Teleglobe Inc. is a Canadian-based company recognized as a leader in the field of...

**10/3,K/52 (Item 5 from file: 813)**  
DIALOG(R)File 813:PR Newswire  
(c) 1999 PR Newswire Association Inc. All rts. reserv.

0844092 DC010  
**ELISRA SUCCESSFULLY SENDS MESSAGES TO U.S. FROM ISRAEL VIA ORBCOMM SATELLITE**

DATE: July 25, 1995 10:17 EDT WORD COUNT: 384

...venture between Orbital and Teleglobe,  
Inc. of Canada, is designed to provide full-time global **two - way** message  
communications and position determination services to users worldwide.  
Through a constellation of up to...

...global messaging, automotive  
and maritime communications, remote industrial asset, monitoring,  
recreational emergency distress reporting, stolen **vehicle** recovery and  
**two - way** e-mail communications for desk-top, laptop or palm-top  
computers  
or **personal digital assistants ( PDAs )**.

Orbital is a space technology company that designs, manufactures,  
operates, and markets a broad range...

**10/3,K/53 (Item 6 from file: 813)**  
DIALOG(R)File 813:PR Newswire  
(c) 1999 PR Newswire Association Inc. All rts. reserv.

0828939 DC030  
**ORBCOMM ENTERS INTO RESELLER AGREEMENT WITH CARIBBEAN SATELLITE SERVICES,**

INC.

DATE: June 6, 1995 15:06 EDT WORD COUNT: 332

...remote  
locations, and at cost-effective prices."

The ORBCOMM system is designed to provide continuous **two - way** message communications and position determination services to users worldwide. Through a constellation of up to...

...messaging,  
automotive and maritime communications, remote industrial asset monitoring, emergency rescue for remote recreation, stolen **vehicle** recovery and **two - way** Internet e-mail communications for desk-top, laptop or palm-top computers or **personal digital assistants ( PDAs )**. The first two operational ORBCOMM spacecraft were launched in April.

The ORBCOMM global communications system...

10/3,K/54 (Item 7 from file: 813)  
DIALOG(R) File 813:PR Newswire  
(c) 1999 PR Newswire Association Inc. All rts. reserv.

0828917 DC028  
ORBCOMM SIGNS RESELLER AGREEMENT WITH INNOVATIVE COMPUTING, A UNIT OF  
WESTINGHOUSE THERMO KING

DATE: June 6, 1995 14:29 EDT WORD COUNT: 388

...from exception notification to  
complete fleet management."

The ORBCOMM system is designed to provide continuous **two - way** message communications and position determination services to users worldwide. Through a constellation of up to...

...messaging,  
automotive and maritime communications, remote industrial asset monitoring, emergency rescue for remote recreation, stolen **vehicle** recovery and **two - way** Internet e-mail communications for desk-top, laptop or palm-top computers or **personal digital assistants ( PDAs )**. The first two operational ORBCOMM spacecraft were launched in early April.

The ORBCOMM global communications...

Set	Items	Description
S1	0	AU=(VOLKEL A? OR VOLKEL, A?)
S2	2608328	VEHICLE OR LORRY OR LORRIES OR TRUCK? OR AUTOMOBILE? OR CAR OR CARS
S3	8629216	TERMINAL? ? OR COMPUTER? ? OR PC? ? OR LAPTOP? OR PALM? PD-A? ? OR NOTEBOOK? OR WORKSTATION? OR NODE? ? OR CPU? ? OR ORGANIZER? ? OR DEVICE? ?
S4	2917736	SCHEDULE? OR NAVIGAT? OR TIME()TABLE OR DIARY
S5	194249	BIDIRECTION? OR (BI OR TWO OR MULTI)() (WAY OR DIRECTIONAL) OR MULTI()WAY
S6	35199	S2(5N)S4
S7	97	S6(15N)S5
S8	3	S7(S)((HANDHELD OR PORTABLE OR PERIPHERAL)(3N)(DEVICE? OR - GADGET? OR EQUIPMENT) OR PDA OR PDAS OR PERSONAL()DIGITAL()ASSISTANT? ? OR PALMPILOT? ? OR PALM()PILOT? ?)
S9	11212	S2(S)((HANDHELD OR PORTABLE OR PERIPHERAL)(3N)(DEVICE? OR - GADGET? OR EQUIPMENT) OR PDA OR PDAS OR PERSONAL()DIGITAL()ASSISTANT? ? OR PALMPILOT? ? OR PALM()PILOT? ?)
S10	201	S9(30N)S5
S11	24	S10(S)S4
S12	267	(S7 OR S10 OR S8 OR S11) NOT PY>2001
S13	211	S12 NOT PD=20010424:20031110
S14	115	RD (unique items)

? show file

File 9:Business & Industry(R) Jul/1994-2003/Nov 07  
(c) 2003 Resp. DB Svcs.

File 15:ABI/Inform(R) 1971-2003/Nov 08  
(c) 2003 ProQuest Info&Learning

File 16:Gale Group PROMT(R) 1990-2003/Nov 07  
(c) 2003 The Gale Group

File 148:Gale Group Trade & Industry DB 1976-2003/Nov 10  
(c)2003 The Gale Group

File 160:Gale Group PROMT(R) 1972-1989  
(c) 1999 The Gale Group

File 275:Gale Group Computer DB(TM) 1983-2003/Nov 07  
(c) 2003 The Gale Group

File 621:Gale Group New Prod.Annou.(R) 1985-2003/Nov 10  
(c) 2003 The Gale Group

File 636:Gale Group Newsletter DB(TM) 1987-2003/Nov 07  
(c) 2003 The Gale Group

14/3,K/1 (Item 1 from file: 9)  
DIALOG(R)File 9:Business & Industry(R)  
(c) 2003 Resp. DB Svcs. All rts. reserv.

3084892 Supplier Number: 03084892 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**Are consumers interested in wireless Internet location-based services?**  
**(Multiclient research study to assess consumer interest in wireless**  
**Internet services finds that 48% use cellular phones now, but just 16%**  
**expect to use one to access the Internet)**  
RCR Wireless News, v 20, p 56  
March 19, 2001  
DOCUMENT TYPE: Journal; Survey ISSN: 0744-0618 (United States)  
LANGUAGE: English RECORD TYPE: Fulltext  
WORD COUNT: 1619

(USE FORMAT 7 OR 9 FOR FULLTEXT)

TEXT:

...the number of respondents who currently use wireless devices, such as cellular phones, Internet-capable PDAs or two - way pagers and also the percent that expect to use these portable devices , or in- vehicle systems, to access the Internet in the future.

While nearly half of those sampled (48...

14/3,K/2 (Item 2 from file: 9)  
DIALOG(R)File 9:Business & Industry(R)  
(c) 2003 Resp. DB Svcs. All rts. reserv.

2833358 Supplier Number: 02833358 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**Motorola unveils Bluetooth products**  
**(Motorola to announce contracts for its Bluetooth car kits sometime in 2000**  
**)**  
RCR Radio Communications Report, v 19, n 24, p 78  
June 12, 2000  
DOCUMENT TYPE: Journal ISSN: 0744-0618 (United States)  
LANGUAGE: English RECORD TYPE: Fulltext  
WORD COUNT: 349

(USE FORMAT 7 OR 9 FOR FULLTEXT)

TEXT:

...Monte Carlo, Monaco.

Telematics uses wireless and global positioning system technologies to enable location-based, two - way voice and data communications between automotive vehicles and call centers that provide information services.

The company said it expects to announce contracts for its Bluetooth car kits sometime later this year. They comprise an integrated Bluetooth module, which provides cordless handset...

...and immediately outside the car. Ultimately, Motorola plans to incorporate synchronization with handheld devices, vehicle navigation and multimedia systems.

"The goal is to bring the Internet to the vehicle. Our motto...

14/3,K/3 (Item 3 from file: 9)  
DIALOG(R)File 9:Business & Industry(R)  
(c) 2003 Resp. DB Svcs. All rts. reserv.

2795321 Supplier Number: 02795321 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**Transmit, receive put on two-way RF device**  
**(Philsar Semiconductor to introduce Multi-Purpose RF data transceiver that**  
**can transmit data in 1- to 10-kbit/second range; offers two-way**  
**communication in one device)**  
Electronic Engineering Times, p 47  
May 01, 2000  
DOCUMENT TYPE: Journal ISSN: 0192-1541 (United States)  
LANGUAGE: English RECORD TYPE: Fulltext  
WORD COUNT: 448

(USE FORMAT 7 OR 9 FOR FULLTEXT)

TEXT:

...said Jeff Robillard, product marketing manager for the Ottawa-based company. Keyless entry devices for **cars**, remote control units for home entertainment systems, wireless sensors and **PDA**s can benefit from a **two-way** device. "Using one-way technology limits the features that can be implemented, but adding **two-way** capabilities increases the features an OEM can offer," Robillard said.  
The single-chip, Multi-Purpose...

14/3,K/4 (Item 4 from file: 9)  
DIALOG(R)File 9:Business & Industry(R)  
(c) 2003 Resp. DB Svcs. All rts. reserv.

2775274 Supplier Number: 02775274  
**PUTTING THE WEB ON WHEELS**  
**(Some 50% of new cars sold in North America, Western Europe and Japan will**  
**be telematics-capable by 2006; in large- and luxury-car markets, 85-90%**  
**of new cars will use telematics by 2006)**  
Globe & Mail, p E1  
March 31, 2000  
DOCUMENT TYPE: Regional Newspaper ISSN: 0319-0714 (Canada)  
LANGUAGE: English RECORD TYPE: Abstract

ABSTRACT:

Automakers are racing to equip their **cars** with telematics, the technology used in **two-way** communications services from a moving **vehicle**. According to a recently released report conducted by Strategy Analytics Inc. (London), 50% of new **cars** sold in North America, Western Europe and Japan will be telematics-capable by 2006. The...

14/3,K/5 (Item 5 from file: 9)  
DIALOG(R)File 9:Business & Industry(R)  
(c) 2003 Resp. DB Svcs. All rts. reserv.

2591613 Supplier Number: 02591613 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**I.D. Systems uses GPS to win post office contract**  
**(ID Systems launches its wireless monitoring and tracking system to aid US**  
**Postal Service in keeping its "We deliver" promise; no financial terms**  
**were disclosed)**  
RCR Radio Communications Report, v 18, n 38, p 52  
September 20, 1999

DOCUMENT TYPE: Journal ISSN: 0744-0618 (United States)  
LANGUAGE: English RECORD TYPE: Fulltext  
WORD COUNT: 739

(USE FORMAT 7 OR 9 FOR FULLTEXT)

TEXT:

...the impact of collisions, tracks vehicle location and movement (in real and historical time), allows **two - way** communication with drivers, helps enforce preventative maintenance **schedules** and monitors **vehicle** utilization and fleet efficiency," the company said.

Founded in 1993, I.D. Systems is the...

**14/3,K/6 (Item 6 from file: 9)**  
DIALOG(R)File 9:Business & Industry(R)  
(c) 2003 Resp. DB Svcs. All rts. reserv.

2568254 Supplier Number: 02568254 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**GM Will Test 'Web Car'; Nokia Turns to Telematics**  
**(GM to test a 'web car' with onboard equipment allowing drivers to access the Internet through voice-based system)**  
TWICE, v 14, n 19, p 39  
August 23, 1999  
DOCUMENT TYPE: Journal ISSN: 0892-7278 (United States)  
LANGUAGE: English RECORD TYPE: Fulltext  
WORD COUNT: 192

(USE FORMAT 7 OR 9 FOR FULLTEXT)

TEXT:

...an alliance to jointly develop "smart car" telematics products and services that will wirelessly deliver **two - way** emergency, **navigation** and other information to the **car**. The companies said the products and services will also include roadside assistance, traffic information and...

**14/3,K/7 (Item 7 from file: 9)**  
DIALOG(R)File 9:Business & Industry(R)  
(c) 2003 Resp. DB Svcs. All rts. reserv.

2500527 Supplier Number: 02500527 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**American Mobile Snags Big Brown**  
**(American Mobile Satellite signs pact with United Parcel Service to carry delivery company's package tracking wireless information)**  
Wireless Week, p 3  
June 21, 1999  
DOCUMENT TYPE: Journal ISSN: 1085-0473 (United States)  
LANGUAGE: English RECORD TYPE: Fulltext  
WORD COUNT: 561

ABSTRACT:

...spent \$100 mil to buy 50,000 DIAD III units. The DIAD III is a **handheld two - way** wireless **device** where the data travels to the shipping company's routing database. Initially, UPS will install new DIADs in 50,000 delivery **trucks**. UPS intends to procure additional DIAD transceivers from Motorola Inc, with having between 60,000...

14/3,K/8 (Item 8 from file: 9)  
DIALOG(R)File 9:Business & Industry(R)  
(c) 2003 Resp. DB Svcs. All rts. reserv.

2343221 Supplier Number: 02343221 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**Billing companies develop mobile devices for reps**  
**(Various products have been unveiled to help field reps for cable TV industry sell, service and schedule)**  
Multichannel News International Supplement, v 4, n 11, p 29+  
December 1998  
DOCUMENT TYPE: Journal ISSN: 0276-8593 (United States)  
LANGUAGE: English RECORD TYPE: Fulltext  
WORD COUNT: 1035

(USE FORMAT 7 OR 9 FOR FULLTEXT)

ABSTRACT:

...schedule updates. Both TechConnect and TechNet use cellular phones and specialized Web browsers. Reportedly, the **two - way** communications encompass voice as well as data. The services can aid in eliminating the unnecessary **truck** routes due to **scheduling** changes. In addition, customers can be kept abreast of changes. Such services are provided at...

TEXT:

...to our other products that are used to manage their work."

According to Ticknet, the **two - way** communications extend not only to data, but also to voice. This helps eliminate unnecessary **truck** rolls due to **scheduling** changes. It also means that customers can be informed of any modifications. This is done...

14/3,K/9 (Item 9 from file: 9)  
DIALOG(R)File 9:Business & Industry(R)  
(c) 2003 Resp. DB Svcs. All rts. reserv.

2228751 Supplier Number: 02228751 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**Store Targets High-end Customers**  
**(InfoPlanet Voice & Data has been launched; company specializes in mobile, home and office telephony products)**  
Wireless Week, p 23  
August 17, 1998  
DOCUMENT TYPE: Journal ISSN: 1085-0473 (United States)  
LANGUAGE: English RECORD TYPE: Fulltext  
WORD COUNT: 565

(USE FORMAT 7 OR 9 FOR FULLTEXT)

ABSTRACT:

...GTE Wireless. The InfoPlanet store stocks cellular phones and accessories, global positioning system products, pagers, **two - way** messaging devices, wireless data products, **automobile navigation**, 900 MHz cordless phones and home office telephone systems.  
...

TEXT:

...mix," Levitt said.

The store carries cellular phones and accessories, global positioning system products, pagers, **two - way** messaging devices, 900 MHz cordless

phones, home office telephone systems, **automobile navigation** and wireless data products.

Its customers require "a higher level of personal attention and hand...

**14/3,K/10** (Item 10 from file: 9)  
DIALOG(R)File 9:Business & Industry(R)  
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1666872 Supplier Number: 01666872 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**Wireless Companies Plan Car Communications Device**  
**(Motorola Inc will jointly develop AutoLink that connects an automobile to an information complex)**  
Wireless Week, p 3+  
November 11, 1996  
DOCUMENT TYPE: Journal ISSN: 1085-0473 (United States)  
LANGUAGE: English RECORD TYPE: Fulltext  
WORD COUNT: 457

(USE FORMAT 7 OR 9 FOR FULLTEXT)

TEXT:

...Corp. last December announced plans to market an AutoLink system for fleets that would include **two - way** paging, automatic emergency response, **vehicle** tracking, **navigational** guidance and other services.

However, Welling said the venture is in limbo while Prince pursues...

**14/3,K/11** (Item 11 from file: 9)  
DIALOG(R)File 9:Business & Industry(R)  
(c) 2003 Resp. DB Svcs. All rts. reserv.

1564928 Supplier Number: 01564928  
**Smaller-Than-Ever Stick Switch from SMK**  
**(SMK Corp. has begun sales of a multi-directional stick switch ("Model JXSII-L"))**  
Nikkan Kogyo Shimbun, p 12  
July 31, 1996  
DOCUMENT TYPE: Business Newspaper (Japan)  
LANGUAGE: Japanese RECORD TYPE: Abstract

ABSTRACT:

...sales goal of 200,000 units. The switch was developed to meet the demand for **multi - directional** switches for monitor scrolling or menu selection, which is growing as **car** navigation systems and other TV or PC multimedia equipment gain popularity. There is also an increasing...

**14/3,K/12** (Item 12 from file: 9)  
DIALOG(R)File 9:Business & Industry(R)  
(c) 2003 Resp. DB Svcs. All rts. reserv.

1508863 Supplier Number: 01508863 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**Carriers try to manage expectations of new service**  
**(Numerous wireless technologies are being launched in the US)**  
RCR Radio Communications Report, v 15, n 22, p 1+  
June 03, 1996  
DOCUMENT TYPE: Journal ISSN: 0744-0618 (United States)



LANGUAGE: English RECORD TYPE: Fulltext  
WORD COUNT: 891

(USE FORMAT 7 OR 9 FOR FULLTEXT)

TEXT:

...portable device over the vehicle-mounted product. Marketing was delayed in some cases while the **portable device** was manufactured and delivered.

Technology aside, it is tough introducing an unfamiliar name into established markets, such as the **two - way** radio business, said David Elkin, president of U.S. MobilComm, a 220 MHz operator.

"It...

**14/3,K/13 (Item 13 from file: 9)**  
DIALOG(R)File 9:Business & Industry(R)  
(c) 2003 Resp. DB Svcs. All rts. reserv.

1347137 Supplier Number: 01347137 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**Tantalizing Tracker**  
**(SkyTel and Prince will jointly develop and market AutoLink, which uses 2-way paging and GPS technologies to track cars)**  
Automotive Industries, v 175, n 12, p 73+  
December 1995  
DOCUMENT TYPE: Journal ISSN: 0273-656X (United States)  
LANGUAGE: English RECORD TYPE: Fulltext  
WORD COUNT: 937

(USE FORMAT 7 OR 9 FOR FULLTEXT)

TEXT:

...agreements." Features, according to Prince, include automatic emergency response, theft deterrence, vehicle tracking and immobilization, **two - way** personal paging, remote **vehicle** locking, driver personalization, **navigational** guidance, and location-based information services.

Disabling the system is difficult because the system has...

**14/3,K/14 (Item 14 from file: 9)**  
DIALOG(R)File 9:Business & Industry(R)  
(c) 2003 Resp. DB Svcs. All rts. reserv.

1182957 Supplier Number: 01182957 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**Seiko takes its FM tech to market**  
**(Seiko Communications Systems Inc is looking to apply its Acctive FM network technology to new uses)**  
Electronic Engineering Times, n 846, p 1+  
May 01, 1995  
DOCUMENT TYPE: Journal ISSN: 0192-1541 (United States)  
LANGUAGE: English RECORD TYPE: Fulltext  
WORD COUNT: 1030

(USE FORMAT 7 OR 9 FOR FULLTEXT)

TEXT:

...signal. Park said that this type of flexibility more than overrides any gripes from the **PDA** community that the system is a one-way communication

stream.

" **Two - way** communications is interesting, but doesn't always lend itself to low cost and low power...

**14/3,K/15 (Item 1 from file: 15)**  
DIALOG(R)File 15:ABI/Inform(R)  
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02148510 71036109

**Goin' mobile**

Kountz, Edward

Credit Union Magazine v67n4 PP: S13-S15 Apr 2001

ISSN: 0011-1066 JRNL CODE: CUG

WORD COUNT: 1468

...TEXT: applications to a variety of wireless devices, including browser- or short-messaging-enabled cell phones, **two - way** pagers, and **personal digital assistants** ( **PDA**s ). Over the coming years, it will also encompass delivery to **car** -based Internet data systems ("telematics services"), as well as a growing number of laptop computer...

**14/3,K/16 (Item 2 from file: 15)**  
DIALOG(R)File 15:ABI/Inform(R)  
(c) 2003 ProQuest Info&Learning. All rts. reserv.

02117274 68015689

**Hooked on connectivity**

Johnson, Maryfran

Computerworld v35n6 PP: 30 Feb 5, 2001

ISSN: 0010-4841 JRNL CODE: COW

WORD COUNT: 409

...TEXT: the office. It's enlightening - and just a tad frightening.

From Web-enabled cell phones, **two - way** pagers and wirelessnetworked **PDA**s to MP3 players, portable DVDs and even Global Positioning System receivers, you can be connected...

**14/3,K/17 (Item 3 from file: 15)**  
DIALOG(R)File 15:ABI/Inform(R)  
(c) 2003 ProQuest Info&Learning. All rts. reserv.

02104459 64803376

**All work and play**

Leavitt, Wendy

Fleet Owner v95n11 PP: 75-78 Nov 2000

ISSN: 1070-194X JRNL CODE: FOW

WORD COUNT: 2466

...TEXT: access) systems, with the cellular phone itself, or with specialized mobile radio systems, such as **two - way** pagers."

UNLIMITED POTENTIAL

The Truck Productivity Computer can also interface with numerous computer **peripheral devices**, Menig notes, including magnetic card readers, bar

code scanners, printers, flatbed scanners, handheld or palmtop...

**14/3,K/18 (Item 4 from file: 15)**  
DIALOG(R)File 15:ABI/Inform(R)  
(c) 2003 ProQuest Info&Learning. All rts. reserv.

02074171 61954708  
**A blast from the past**  
Smith, Lee  
Telecommunications v34n9 PP: 70-72 Sep 2000  
ISSN: 0040-2494 JRNL CODE: TIE  
WORD COUNT: 1575

...TEXT: only platform on which these services will be delivered either. The Yankee group states that **PDA**s , smart phones, hand-held computers, **two - way** pagers, **automobile** & fleet applications, wireless modems and traditional wireless phones will all contribute to the explosive growth...

**14/3,K/19 (Item 5 from file: 15)**  
DIALOG(R)File 15:ABI/Inform(R)  
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01859180 05-10172  
**MIT Lab's Michael Dertouzos' vision of the future**  
Alster, Norm  
Upside v11n8 PP: 116-123 Aug 1999  
ISSN: 1052-0341 JRNL CODE: UPS  
WORD COUNT: 3879

...TEXT: network, are two pieces of hardware. One is the Handy2 1, a software-programmable, chameleonlike **handheld device** that can switch between cell phone, **two - way** radio, computer,TV and beeper functions.The Handy21 can also be used to communicate with...

**14/3,K/20 (Item 6 from file: 15)**  
DIALOG(R)File 15:ABI/Inform(R)  
(c) 2003 ProQuest Info&Learning. All rts. reserv.

01513257 01-64245  
**UNIX in a pocket**  
Greenfeld, Norton  
UNIX Review v15n12 PP: 7-11 Nov 1997  
ISSN: 0742-3136 JRNL CODE: UXR  
WORD COUNT: 1305

...TEXT: might appear in short order. It is possible to combine Global Positioning System components with **portable gadgets** for a system that can tell you where it is. Several manufacturers are already combining these features with cell phone technology as anti-theft devices for **cars** . **Two - way** devices would allow parents to locate a lost child, for example.

Low-cost voice-mail...

**14/3,K/21 (Item 7 from file: 15)**  
DIALOG(R)File 15:ABI/Inform(R)  
(c) 2003 ProQuest Info&Learning. All rts. reserv.

01474730 01-25718

**America's competitive advantage: Advanced technologies**

Paddock, Richard

Business America v118n7 PP: 11-12 Jul 1997

ISSN: 0190-6275 JRNL CODE: CT

WORD COUNT: 821

...TEXT: industry is a world leader in wireless technology.

Increasingly smaller and lighter handsets; advances in **vehicle** monitoring and global positioning systems; new public safety applications; smart cards; extended battery life; new base station functionalities; **two - way** and voice paging; and innovations in wireless data products were just some of the many...

**14/3,K/22 (Item 8 from file: 15)**

DIALOG(R)File 15:ABI/Inform(R)

(c) 2003 ProQuest Info&Learning. All rts. reserv.

01155800 98-05195

**Missing link**

Keenan, Tim

Ward's Auto World v32n1 PP: 68 Jan 1996

ISSN: 0043-0315 JRNL CODE: WAW

WORD COUNT: 420

...TEXT: vehicle's other electronics and offers automatic emergency response, theft deterrence, vehicle tracking and immobilization, **two - way** personal paging, remote **vehicle** unlocking, **navigational** guidance and location-based information services.

Using **two - way** wireless communication on narrow-band personal communications services (PCS) radio waves and a global positioniung...

...to a toll-free 800 number.

Using the same technology, the driver convenience package offers **navigational** guidance, remote **vehicle** unlocking, **two - way** messaging, driver information, fleet management, remote diagnostics and personalized system settings for radio and seating...

**14/3,K/23 (Item 9 from file: 15)**

DIALOG(R)File 15:ABI/Inform(R)

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01126266 97-75660

**Information technology trends in logistics**

Hammant, Jeremy

Logistics Information Management v8n6 PP: 32-37 1995

ISSN: 0957-6053 JRNL CODE: LIM

WORD COUNT: 3798

...TEXT: not require the driver to cut short the journey immediately. Thus maintenance activities can be **scheduled** more accurately to achieve improved **vehicle** utilization.

\* Vehicle utilization. The **two - way** messaging facility allows details of

free load space to be relayed to the centre. This...

**14/3,K/24 (Item 10 from file: 15)**  
DIALOG(R)File 15:ABI/Inform(R)  
(c) 2003 ProQuest Info&Learning. All rts. reserv.

01008932 96-58325  
**Enhancing intelligent transportation with GPS**  
Johnson, William W  
Satellite Communications v19n4 PP: 70 Apr 1995  
ISSN: 0147-7439 JRNL CODE: SAC  
WORD COUNT: 430

...TEXT: the efficient routing and dispatching of every vehicle in the fleet.

Advisory/information systems include **vehicle navigation** capabilities using GPS with **two - way** digital communications links. Traffic, weather and roadway information is constantly transmitted to the vehicles in...

**14/3,K/25 (Item 11 from file: 15)**  
DIALOG(R)File 15:ABI/Inform(R)  
(c) 2003 ProQuest Info&Learning. All rts. reserv.

00925284 95-74676  
**With satellites, Boyle keeps trucking all night long**  
Radding, Alan  
InfoWorld v16n42 PP: 89-92 Oct 17, 1994  
ISSN: 0199-6649 JRNL CODE: IFW  
WORD COUNT: 1376

...TEXT: available truck, based on positioning information received from the satellite. The database can then generate **schedules**, notify the designated **truck** to make the new pickup via the **bidirectional** satellite link, and record the truck's acknowledgment.

Additionally, as a truck makes its pickups...

**14/3,K/26 (Item 12 from file: 15)**  
DIALOG(R)File 15:ABI/Inform(R)  
(c) 2003 ProQuest Info&Learning. All rts. reserv.

00920410 95-69802  
**Vehicle navigation systems hit the road**  
DiLorenzo, Jim  
Telephony v227n12 PP: 48 Sep 19, 1994  
ISSN: 0040-2656 JRNL CODE: TPH  
WORD COUNT: 639

...TEXT: successful, it will be expanded throughout the Chicago area and potentially beyond, he said.

IN- **CAR** COMPONENTS OF MOTOROLA'S DYNAMIC **NAVIGATIONAL** SYSTEM

High-speed data radio

Uses **two - way** data communications to provide traveler with information

on travel times, road conditions, construction and accident...

**14/3,K/27 (Item 13 from file: 15)**

DIALOG(R)File 15:ABI/Inform(R)

(c) 2003 ProQuest Info&Learning. All rts. reserv.

00518964 90-44721

**Smart Cars of the 21st Century**

Manji, James F.

Automation v37n10 PP: 18-25 Oct 1990

ISSN: 0896-6052 JRNL CODE: PDE

...ABSTRACT: to be implemented. A fully evolved version of this system would consist of: 1. a **navigation** system aboard a **vehicle**, 2. a traffic management center for the urban area, 3. **two - way** communication between the vehicle and the traffic management center, and 4. sensors on the highway...

**14/3,K/28 (Item 1 from file: 16)**

DIALOG(R)File 16:Gale Group PROMT(R)

(c) 2003 The Gale Group. All rts. reserv.

09188197 Supplier Number: 61557665 (USE FORMAT 7 FOR FULLTEXT)

**Warehouse workhorse goes high-tech.**

DEIERLEIN, BOB

Beverage World, v119, n1688, p98

March 15, 2000

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 572

... forklift operations throughout the fleet, continually updating each truck's location. This enables real-time, **two - way** text communication with individual **truck** operators, enforces maintenance **schedules**, warns of impending mechanical problems and tracks each vehicle's utilization.  
It also provides unique...

**14/3,K/29 (Item 2 from file: 16)**

DIALOG(R)File 16:Gale Group PROMT(R)

(c) 2003 The Gale Group. All rts. reserv.

08483036 Supplier Number: 72690144 (USE FORMAT 7 FOR FULLTEXT)

**Elite Brings Satellite Tracking to Rental Fleets.**

Business Wire, p0440

April 3, 2001

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 893

... been locked inside, disabling the vehicle's starter in case of theft and monitoring a **car**'s alarm or airbags for activation. PageTrack(R) owners can monitor their **vehicle** or receive event notification (e.g. alarm activation) via a secure Internet link, a **two - way** pager, an Internet access-enabled cellular phone, a **Palm Pilot** VII, or by contacting Elite's 24-hour Customer Support Control Center.  
About Elite Logistics...

14/3,K/30 (Item 3 from file: 16)

DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2003 The Gale Group. All rts. reserv.

08442169 Supplier Number: 71838876 (USE FORMAT 7 FOR FULLTEXT)

**Wireless Internet.**

Fleet Owner, v96, n3, p113

March, 2001

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 150

... on demand, as well as reports on vehicle speed and stops. It will also provide **two - way** messaging and automated workflow status reports, and track **scheduled vehicle** maintenance.

The service requires subscriptions to Nextel's packet-data and voice services, and access...

14/3,K/31 (Item 4 from file: 16)

DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2003 The Gale Group. All rts. reserv.

08393678 Supplier Number: 71260954 (USE FORMAT 7 FOR FULLTEXT)

**Biztravel.com Selected As MyPalm Portal Beta Partner; Biztravel unwired Now Available to New Community of Mobile Users.**

Business Wire, p2393

March 6, 2001

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 561

... friendly experience.

About biztravel unwired

Biztravel unwired enables travelers to use Web-enabled mobile phones, **two - way** pagers, and other personal digital assistants ( **PDA**s ) to make air, hotel, and rental **car** reservations as well as to check flight status and availability. Offering all the cutting-edge...

14/3,K/32 (Item 5 from file: 16)

DIALOG(R)File 16:Gale Group PROMT(R)  
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08388095 Supplier Number: 71128919 (USE FORMAT 7 FOR FULLTEXT)

**Biztravel.com Providing AT&T Digital PocketNet Customers with Wireless Travel Services; Expands Distribution of biztravel Wireless Air, Car and Hotel Booking Services.**

Business Wire, p2377

Feb 7, 2001

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 629

... winning services.

About biztravel unwired

Biztravel unwired enables customers to use Web-enabled mobile phones, **two - way** pagers, and other personal digital assistants ( **PDA**s ) to make air, **car** and hotel reservations as well as to check flight status

and availability. Biztravel unwired provides...

**14/3,K/33 (Item 6 from file: 16)**  
DIALOG(R)File 16:Gale Group PROMT(R)  
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08370247 Supplier Number: 70924779 (USE FORMAT 7 FOR FULLTEXT)  
**e-Power International Announces Colin Edwards as Worldwide Spokesperson for  
The Immobiliser's Motorcycle and Auto Security Products.**  
Business Wire, p0156  
Feb 28, 2001  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 784

... product uses advanced technology from Motorola(TM) (NYSE:MOT) and  
MCI WorldCom's SkyTel(TM) **two - way** paging network, as well as new  
wireless Internet technology from Elite Logistics (OTCBB:ELOG).

GPS Vision(TM) has the power to track and control a **vehicle**  
through a **PDA** , **two - way** pager, Internet-enabled cell phone or through  
the click of a mouse. **Car** owners receive the **vehicle** 's street address  
location, digital mapping, **car** speed and direction in seconds via the  
Internet. Parents may monitor the use of the...

**14/3,K/34 (Item 7 from file: 16)**  
DIALOG(R)File 16:Gale Group PROMT(R)  
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08351620 Supplier Number: 70713043 (USE FORMAT 7 FOR FULLTEXT)  
**Sprint and Biztravel.com Deliver Mobile Business Travel Services Via Sprint  
PCS Wireless Web.**  
PR Newswire, pNA  
Feb 20, 2001  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 750

... business audience."  
About Biztravel unwired  
Biztravel unwired enables customers to use Web-enabled mobile  
phones, **two - way** pagers, and other personal digital assistants ( **PDAs** )  
to make air, **car** and hotel reservations as well as to check flight status  
and availability. Biztravel unwired provides...

**14/3,K/35 (Item 8 from file: 16)**  
DIALOG(R)File 16:Gale Group PROMT(R)  
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08336096 Supplier Number: 69972046 (USE FORMAT 7 FOR FULLTEXT)  
**Immobiliser Launches GPS Vision, World's First Over-The-Counter Internet  
GPS Tracking System For Cars.**  
Business Wire, p2671  
Feb 5, 2001  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 767



... product uses advanced technology from Motorola(TM) (NYSE:MOT) and MCI WorldCom's SkyTel(TM) **two - way** paging network, as well as new wireless Internet technology from Elite Logistics (OTCBB:ELOG), based in Freeport, Texas.

GPS Vision(TM) has the power to track and control a **vehicle** with just the click of a mouse. Car owners receive the vehicle's street address ...

...their car in Houston when their child is out on a joyride in the family **car** . Or, if a driver accidentally locks the keys in the **car** , he or she can remotely unlock the door through an Internet-enabled cell phone, **two - way** pager or **PDA** .

Business owners may find this device particularly useful. Owners of service trucks can actually put...

...could even start a vehicle engine from a distance, even from another state.

With a **PDA** , **two - way** pager or e-mail enabled cell phone, **car** owners can track and control their **vehicle** while walking down the street. If a **vehicle** is stolen, for example, owners could use a Palm Pilot(TM) or other Internet-enabled...

**14/3,K/36 (Item 9 from file: 16)**  
DIALOG(R)File 16:Gale Group PROMT(R)  
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08310865 Supplier Number: 69844577 (USE FORMAT 7 FOR FULLTEXT)  
**From truck stops to truck cabs.**  
Fleet Owner, v95, n12, p65  
Dec, 2000  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Trade  
Word Count: 94

The new **two - way** wireless messaging service, called DRIVERNet pK, will let drivers access dispatch information, Internet e-mail, **truck** routing information with household goods miles, load matching through DAT Services and pay settlements using...

**14/3,K/37 (Item 10 from file: 16)**  
DIALOG(R)File 16:Gale Group PROMT(R)  
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08219407 Supplier Number: 69205473 (USE FORMAT 7 FOR FULLTEXT)  
**Elite Logistics Inc. Completes PageTrack Distribution Agreement With Motorola Inc.**  
Business Wire, p0339  
Jan 16, 2001  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 847

... Internet link, PageTrack(R) 2 owners can communicate with, and remotely manage functions on the **vehicle** via a **two - way** pager, an Internet-enabled cellular phone or **PDA** , or by calling Elite Logistic's 24-hour Customer Support Control Center.

PageTrack(R) 2...

**14/3,K/38 (Item 11 from file: 16)**  
DIALOG(R)File 16:Gale Group PROMT(R)  
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08112904 Supplier Number: 67633600 (USE FORMAT 7 FOR FULLTEXT)  
**SalesMountain Announces Alliances with AT&T Wireless and Sprint PCS,  
Expanding Dominance of Wireless Distribution Network.**  
Business Wire, p0347  
Dec 6, 2000  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 599

... has furthered its technology to also provide Sales content to alpha-numeric paging devices and **PDA**s . Future developments in the wireless market include delivering Sales content to **two - way** messaging and voice-enabled devices for personal and **automobile** use. SalesMountain is ideally suited to the growing mobile market, giving consumers instant access to...

**14/3,K/39 (Item 12 from file: 16)**  
DIALOG(R)File 16:Gale Group PROMT(R)  
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08065457 Supplier Number: 67206632 (USE FORMAT 7 FOR FULLTEXT)  
**CD RADIO PROMISES DATA AND AUDIO LISTENING RELIEF.(Statistical Data Included)**  
REJMAN, ERNEST  
Microwave Journal, v43, n10, p22  
Oct, 2000  
Language: English Record Type: Fulltext  
Article Type: Statistical Data Included  
Document Type: Magazine/Journal; Refereed; Trade  
Word Count: 6000

... data channel that provides a wireless data link into your car as well as to **handheld devices** .

**TWO - WAY DATA**

Although the downlink is one way, it would be easy to couple it with ...

**14/3,K/40 (Item 13 from file: 16)**  
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08016568 Supplier Number: 66654242 (USE FORMAT 7 FOR FULLTEXT)  
**American Trucking Associations & NetAlive Team to Make Trucking Information Available Wirelessly.**  
PR Newswire, pNA  
Nov 7, 2000  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 499

... companies involved in trucking. ATA will partner with NetAlive, Inc. to make its widely used **Truckline** Network of business-to-business Web sites easily accessible to ATA members and Transport Topics subscribers

using Web-enabled **handheld** communications **devices** such as **Palm Pilots** , **two - way** digital pagers and cell phones. NetAlive is a software company that specializes in enabling corporations...

**14/3,K/41 (Item 14 from file: 16)**

DIALOG(R)File 16:Gale Group PROMT(R)  
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07867424 Supplier Number: 65687975 (USE FORMAT 7 FOR FULLTEXT)  
**Nexterna Announces Record Production Orders for OptiSoft In-Vehicle Computers.**

Business Wire, p2693  
Oct 3, 2000  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 488

... data over a wireless link - in vehicles. The OptiSoft applications installed on the ARCs provide **two - way** messaging; collect sensor data for engine diagnostics, fuel and pressure; and track **vehicle** location.

The communications systems inside and/or external to the ARC provide complete wireless data...

**14/3,K/42 (Item 15 from file: 16)**

DIALOG(R)File 16:Gale Group PROMT(R)  
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07774487 Supplier Number: 65009528 (USE FORMAT 7 FOR FULLTEXT)  
**Novatel Wireless & VisionAIR Enter Strategic Marketing Agreement; Companies Partner to Provide Wireless Data Solutions to Vertical Customers.**

Business Wire, p0378  
Sept 6, 2000  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 638

... 2000/CE laptops and handheld computers; and Minstrel modems are wireless data accessories for Palm **handheld devices** . All the Novatel Wireless modems provide **two - way** wireless access to email, corporate LANs and the Internet via the Cellular Digital Packet Data...

**14/3,K/43 (Item 16 from file: 16)**

DIALOG(R)File 16:Gale Group PROMT(R)  
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07724388 Supplier Number: 64428608 (USE FORMAT 7 FOR FULLTEXT)  
**Rosenbluth Interactive Receives CIO-100 Award For Customer Service Excellence.**

PR Newswire, p4991  
August 21, 2000  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 600

... be among the first travel service providers to enable customers to book flights and make **car** and hotel reservations seamlessly across a range of devices including Web-enabled phones, **two - way** pager devices

(e.g., RIM pagers), and **personal digital assistants** (e.g., Palm and Handspring Visor devices).

"It is our mission to exceed our customers...

**14/3,K/44 (Item 17 from file: 16)**  
DIALOG(R)File 16:Gale Group PROMT(R)  
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07628293 Supplier Number: 63663659 (USE FORMAT 7 FOR FULLTEXT)  
**Tegic Communications Establishes Offices in Beijing and Hong Kong; Company Appoints Steve Kung as Director of Business Development and General Manager for Greater China.**

Business Wire, p0290  
July 25, 2000  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 829

... access. The T9 technology is adaptable to many information devices, including TV set-top boxes, **PDA**s , remote controls, kiosks, **automobile** multimedia products, **two - way** pagers and more. For the Chinese language, T9 Text Input supports Simplified and Traditional stroke...

**14/3,K/45 (Item 18 from file: 16)**  
DIALOG(R)File 16:Gale Group PROMT(R)  
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07465194 Supplier Number: 62763337 (USE FORMAT 7 FOR FULLTEXT)  
**Elite Logistics, Inc. Signs PageTrack-TM- Distribution Agreement With Omega Research & Development.**

Business Wire, p2267  
June 16, 2000  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 933

... secure Internet link, PageTrack(TM) owners can communicate with, and remotely manage functions on their **vehicle** via a **two - way** pager, an Internet access-enabled cellular phone or **Palm Pilot PDA** , or by calling Elite's 24-hour Customer Support Control Center.  
PageTrack(TM) command capabilities...

**14/3,K/46 (Item 19 from file: 16)**  
DIALOG(R)File 16:Gale Group PROMT(R)  
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07315906 Supplier Number: 61952075 (USE FORMAT 7 FOR FULLTEXT)  
**Transmit, receive put on two-way RF device. (Philsar Semiconductor) (Company Business and Marketing)**

Wade, Will  
Electronic Engineering Times, p47  
May 1, 2000  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Trade  
Word Count: 451

... said Jeff Robillard, product marketing manager for the Ottawa-based

company. Keyless entry devices for **cars** , remote control units for home entertainment systems, wireless sensors and **PDA**s can benefit from a **two - way** device. "Using one-way technology limits the features that can be implemented, but adding **two - way** capabilities increases the features an OEM can offer," Robillard said.

The single-chip, Multi-Purpose...

**14/3,K/47 (Item 20 from file: 16)**

DIALOG(R)File 16:Gale Group PROMT(R)

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07235288 Supplier Number: 61584840 (USE FORMAT 7 FOR FULLTEXT)

**As Electronics Companies Push Home Automation, Microware Stands to Benefit.**

Business Wire, p0044

April 20, 2000

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 1055

... is used in a wide range of consumer devices including digital audio and video systems, **car navigation** systems, advanced cellular phones and **two - way** pagers. "Microware is poised to gain market share in the area of consumer electronics. We...

**14/3,K/48 (Item 21 from file: 16)**

DIALOG(R)File 16:Gale Group PROMT(R)

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07220201 Supplier Number: 61523526 (USE FORMAT 7 FOR FULLTEXT)

**Elite Logistics Inc. Announces Memorandum of Understanding With Motorola**

**Latin America and Caribbean Region.**

Business Wire, p0309

April 17, 2000

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 719

... secure Internet link, PageTrack(TM) owners can communicate with, and remotely manage, functions on the **vehicle** via a **two - way** pager, a **Palm Pilot PDA** , an Internet access-enabled cellular phone or by calling Elite's 24-hour Customer Support...

**14/3,K/49 (Item 22 from file: 16)**

DIALOG(R)File 16:Gale Group PROMT(R)

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07118578 Supplier Number: 60087132 (USE FORMAT 7 FOR FULLTEXT)

**FROM THE NEWS DESK: Rough patches on the road ahead for e-cars. (Industry Trend or Event)**

InfoWorld, v22, n11, p5

March 13, 2000

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 334

... the road.

For a start, the onboard computer is competing with the exploding

number of **handheld devices** . A sales executive, for example, may not want to cede his or her beloved **PDA ( personal digital assistant )** or **two - way** pager for a company-supplied, Net-connected **car** . Part of the issue there is, ironically, mobility. Face-to-face meetings might be enhanced with a **PDA** or laptop in hand. Optimally, road warriors will be able to alternate between devices, including...

**14/3,K/50 (Item 23 from file: 16)**

DIALOG(R)File 16:Gale Group PROMT(R)  
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06984956 Supplier Number: 59095993 (USE FORMAT 7 FOR FULLTEXT)

**Wireless Strategies Wise Up. (Industry Trend or Event)**

Howard, Bill

PC Magazine, p109

Feb 22, 2000

Language: English Record Type: Fulltext Abstract

Document Type: Magazine/Journal; General Trade

Word Count: 807

... messages marked "urgent" is that they're urgent to the senders, not necessarily to you. **Two - way** wireless messaging doesn't have to be just for high-paid white-collar workers: It's great for a salesperson wandering a 10-acre used- **car** lot with you trying to find the model and color that comes close to what...

**14/3,K/51 (Item 24 from file: 16)**

DIALOG(R)File 16:Gale Group PROMT(R)  
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06933947 Supplier Number: 58528219 (USE FORMAT 7 FOR FULLTEXT)

**ALBERTSON'S LOGISTICS TECHNOLOGY SUPPORTS E-COMMERCE. (Brief Article)**

SCIACCA, PATRICK

Supermarket News, p23

Jan 3, 2000

Language: English Record Type: Fulltext

Article Type: Brief Article

Document Type: Magazine/Journal; Trade

Word Count: 464

... a handheld communication device that provides them with route information as well as allow for **two - way** communication with a dispatcher.

We have a handheld device for drivers and a Global Positioning System (GPS) on the delivery **trucks** , Schachtell told SN.

"Handheld computers enable our delivery personnel to capture important transaction and preference...

**14/3,K/52 (Item 25 from file: 16)**

DIALOG(R)File 16:Gale Group PROMT(R)  
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06885557 Supplier Number: 58038337 (USE FORMAT 7 FOR FULLTEXT)

**Telematics at a glance.**

Eisenstein, Paul A.

Automotive Industries, v179, n11, pA6

Nov, 1999

Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Trade  
Word Count: 2311

... desktop computers, including word processing and Internet access. The latest Palm Pilot offers a wireless, **two - way** radio link. Some believe **PDA**s will supplant installed telematic systems, much the same way the handheld cell phone has largely replaced the hard-wired **car** phone. Using Bluetooth technology, a **PDA** could serve as a vehicle's main "infotainment" computer, then be carried to home or...

**14/3,K/53 (Item 26 from file: 16)**  
DIALOG(R)File 16:Gale Group PROMT(R)  
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06878358 Supplier Number: 58273327 (USE FORMAT 7 FOR FULLTEXT)  
**Elite Logistics, Inc. Completes Acquisition.**  
PR Newswire, p2056  
Dec 16, 1999  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 532

... valuable objects in transit. PageTrack(TM) allows the owner to remotely manage functions on the **vehicle** via a **two - way** pager, a **Palm Pilot PDA**, an Internet access-enabled cellular phone, a secure Internet link, or by calling Elite's...

**14/3,K/54 (Item 27 from file: 16)**  
DIALOG(R)File 16:Gale Group PROMT(R)  
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06773970 Supplier Number: 57088131 (USE FORMAT 7 FOR FULLTEXT)  
**GoAmerica and Avis Rent A Car, Inc. Sign Wireless E-Commerce Partnership Agreement.**  
Business Wire, p0020  
Nov 2, 1999  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 527

... Web site through the Go.Web service with an identification name and password to obtain **car** rental information, such as **vehicle** reservation and status. The Rent A **Car** With Avis service will be commercially available by early 2000 on a number of wireless devices such as **two - way** messengers from Research in Motion (Nasdaq:RIMM) (TSE:RIM), **PalmPilots** (TM) and Windows CE handheld computers.

"Our wireless solutions enable today's mobile professionals access...

**14/3,K/55 (Item 28 from file: 16)**  
DIALOG(R)File 16:Gale Group PROMT(R)  
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06682542 Supplier Number: 55918654 (USE FORMAT 7 FOR FULLTEXT)  
**I.D. Systems, Inc. Receives \$113,000 Order from Dana Commercial Credit For Automated Vehicle Management System.**  
PR Newswire, p6307

Sept 30, 1999  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 591

... accountability for vehicle damage, tracks vehicle location and movement (both real-time and historical), allows **two - way** communication with drivers, helps enforce preventative maintenance **schedules**, and monitors **vehicle** utilization and fleet efficiency.

Dana Commercial Credit (DCC), one of seven Strategic Business Units of...

**14/3,K/56 (Item 29 from file: 16)**  
DIALOG(R)File 16:Gale Group PROMT(R)  
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06542738 Supplier Number: 55364687 (USE FORMAT 7 FOR FULLTEXT)  
**English-Japanese bi-directional translator devised. (Matsushita and Advanced Telecommunications Research Institute International develop language-translation software) (Brief Article)**

Japan Computer Industry Scan, pNA  
August 2, 1999  
Language: English Record Type: Fulltext  
Article Type: Brief Article  
Document Type: Newsletter; Trade  
Word Count: 122

... Translated expressions are shown on the computer display. The new technology combines the institute's **bi - directional** translation technology with Matsushita's speech recognition and synthesis technology used in its **car navigation** systems and other devices. As the accuracy of translation is around 90% on average, Matsushita...

**14/3,K/57 (Item 30 from file: 16)**  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2003 The Gale Group. All rts. reserv.

06339933 Supplier Number: 54634881 (USE FORMAT 7 FOR FULLTEXT)  
**Fleet management system reduces vehicle downtime.**

Modern Materials Handling, v54, n5, p110(1)  
May 31, 1999  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Trade  
Word Count: 57

(USE FORMAT 7 FOR FULLTEXT)  
TEXT:

...use radio frequency identification system for industrial fleet management increases efficiencies in fleet utilization. Providing **two - way** communication between plant manager and vehicles, the system allows posting of work **schedules** directly to a **vehicle** operator and changes in work orders without incurring vehicle downtime. Reports can be generated on ...

**14/3,K/58 (Item 31 from file: 16)**  
DIALOG(R)File 16:Gale Group PROMT(R)  
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06188509      Supplier Number: 54083654    (USE FORMAT 7 FOR FULLTEXT)  
**Magellan Corp. and Marine Electronics Leader Lowrance Electronics Inc. to Merge; \$150 Million Consumer GPS-Related Business Unit to Be Established.**  
Business Wire, p1055  
March 12, 1999  
Language: English      Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count:    842

...      applications; hand-held GPS products for land, air and sea  
         navigation; satellite telephones; ORBCOMM personal **two - way**  
         satellite messaging units; and the newly introduced Magellan  
         750NAV turn-by-turn **vehicle navigation** unit.  
--      ORBCOMM commercial and industrial products for worldwide, **two -**  
**way**      data communications via the world's first low-Earth-orbit  
         satellite data messaging service.  
--      Magellan...

**14/3,K/59      (Item 32 from file: 16)**  
DIALOG(R)File 16:Gale Group PROMT(R)  
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06188408      Supplier Number: 54083507    (USE FORMAT 7 FOR FULLTEXT)  
**Magellan Corporation and Marine Electronics Leader Lowrance Electronics Inc. to Merge.**  
PR Newswire, p3945  
March 12, 1999  
Language: English      Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count:    851

...      applications;  
         hand-held GPS products for land, air and sea navigation; satellite  
         telephones; ORBCOMM personal **two - way** satellite messaging units;  
and      the newly introduced Magellan 750NAV turn-by-turn **vehicle**  
**navigation**  
         unit.  
--      ORBCOMM commercial and industrial products for worldwide, **two -**  
**way** data      communications via the world's first low-Earth-orbit satellite data  
         messaging service.  
--      Magellan...

**14/3,K/60      (Item 33 from file: 16)**  
DIALOG(R)File 16:Gale Group PROMT(R)  
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06152753      Supplier Number: 53946725    (USE FORMAT 7 FOR FULLTEXT)  
**TRW's Integrated Overhead Console Provides Automakers, Consumers With a Bundle of Key Convenience, Security, Safety Features.**  
PR Newswire, p7269  
Feb 24, 1999  
Language: English      Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count:    611

... convenience, security and safety features that could be integrated into the console include occupant sensing, **navigation** technology, **two - way** communication, a **vehicle** location system and other vehicle controls. The overhead console could be available on new vehicles...

**14/3,K/61 (Item 34 from file: 16)**

DIALOG(R)File 16:Gale Group PROMT(R)  
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06061262 Supplier Number: 53369166 (USE FORMAT 7 FOR FULLTEXT)

**MVP Digital Office: Business Tools.(Buyers Guide)**

PC/Computing, p184(1)

Jan, 1999

Language: English Record Type: Fulltext

Article Type: Buyers Guide

Document Type: Magazine/Journal; General Trade

Word Count: 296

Door-to-Door Copilot Now you'll always know where you're going. The in- **car navigation** system works on your portable computer, with **two - way** voice-activated technology that allows hands-free operation.  
TravRoute / (888) 872-8768 / \$199 est. street...

**14/3,K/62 (Item 35 from file: 16)**

DIALOG(R)File 16:Gale Group PROMT(R)  
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05905324 Supplier Number: 53122043 (USE FORMAT 7 FOR FULLTEXT)

**ITS WORLD CONGRESS HIGHLIGHTS ASIAN CAR INFORMATION SYSTEMS.**

Global Positioning & Navigation News, v8, n21, pNA

Oct 21, 1998

Language: English Record Type: Fulltext

Document Type: Newsletter; Trade

Word Count: 424

... area companies such as Samsung Motors Inc. are adding driver and travel information to existing **car navigation** units. Samsung offers a **two - way** information service that converts collected data to compacted data formats. Then the data is transmitted...

**14/3,K/63 (Item 36 from file: 16)**

DIALOG(R)File 16:Gale Group PROMT(R)  
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05880295 Supplier Number: 53060515 (USE FORMAT 7 FOR FULLTEXT)

**ORBCOMM Introduces Value-Added Services for World's First Handheld**

**Satellite Communicator.**

Business Wire, p1584

Sept 28, 1998

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 772

... wireless communications markets worldwide. The company is also a preeminent designer and manufacturer of advanced **vehicle navigation** systems, and offers both geostationary and LEO satellite communications

products.

ORBCOMM provides **two - way** monitoring, tracking and messaging services through the world's first low-Earth orbit satellite-based...

**14/3,K/64 (Item 37 from file: 16)**

DIALOG(R)File 16:Gale Group PROMT(R)

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05854363 Supplier Number: 50371563 (USE FORMAT 7 FOR FULLTEXT)

**PCS '98: A PLETHORA OF PRODUCTS AND SERVICES**

Lewis, Jeff

HFN The Weekly Newspaper for the Home Furnishing Network, p42

Sept 21, 1998

Language: English Record Type: Fulltext

Article Type: Article

Document Type: Magazine/Journal; General

Word Count: 458

... the convergence of technologies that allows for the production of such powerful communications features as **two - way** text messaging.

**Vehicle0** location/monitoring systems, wireless data networks and **portable** computing **devices**, such as the **PalmPilot** and Windows CE devices, also will be showcased.

Yet, the show's timing has left...

**14/3,K/65 (Item 38 from file: 16)**

DIALOG(R)File 16:Gale Group PROMT(R)

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05590571 Supplier Number: 48462512 (USE FORMAT 7 FOR FULLTEXT)

**Motorola Extends Series 500 Integrated Wireless Modems into Germany.**

Business Wire, p5040320

May 4, 1998

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 546

... systems. The modems provide reliable, cost-effective packet data communications for applications such as automatic **vehicle** location (AVL), computing, dispatch, electronic funds transfer point of sale (EFTPOS) and **ltwo - way** messaging, as well as telemetry applications such as metering, monitoring, security and vending.

Each of...

**14/3,K/66 (Item 39 from file: 16)**

DIALOG(R)File 16:Gale Group PROMT(R)

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05422758 Supplier Number: 48224979 (USE FORMAT 7 FOR FULLTEXT)

**INTEL USES PC TECHNOLOGY FOR CAR NAVIGATION AND ENTERTAINMENT APPLICATIONS**

Global Positioning & Navigation News, v8, n1, pN/A

Jan 14, 1998

Language: English Record Type: Fulltext

Document Type: Newsletter; Trade

Word Count: 201

... Navigation Technologies, the company said. Liikkuva also has the

Retki VLR Client software that delivers **two - way** , voice and data communication capabilities to **vehicle navigation** systems and cellular/GPS wireless devices.

Intel also is working with Visteon Automotive Systems, which...

**14/3,K/67 (Item 40 from file: 16)**

DIALOG(R)File 16:Gale Group PROMT(R)

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04717198 Supplier Number: 46944983 (USE FORMAT 7 FOR FULLTEXT)

**ORBCOMM to Buy 10 Gateway Earth Stations From Scientific-Atlanta, Inc.**

PR Newswire, p1203DCTU022

Dec 3, 1996

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 546

... messaging, automotive and maritime communications, remote industrial asset monitoring, emergency rescue for remote recreation, stolen **vehicle** recovery and **two - way** Internet e-mail communications for desk-top, laptop or palm-top computers or **personal digital assistants**

ORBCOMM is a partnership owned by Orbital Sciences Corporation (Nasdaq: ORBI), Teleglobe Inc. of Canada...

**14/3,K/68 (Item 41 from file: 16)**

DIALOG(R)File 16:Gale Group PROMT(R)

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04538650 Supplier Number: 46668327

**Navigation systems head car electronics along new paths.**

Journal of the Electronics Industry, p22

Sept, 1996

Language: English Record Type: Abstract

Document Type: Magazine/Journal; Trade

ABSTRACT:

...being simple road guides that use map databases, to real-time navigation systems. Advances in **vehicle** -use electronics includes **car navigation** systems with dynamic route guidance, **car** -use multimedia and car-use **bidirectional** communications equipment. One such development in **car navigation** technology is the **Vehicle** Information and Communication System, which provides information about traffic conditions and weather forecasts, that has...

**14/3,K/69 (Item 42 from file: 16)**

DIALOG(R)File 16:Gale Group PROMT(R)

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04533364 Supplier Number: 46660930 (USE FORMAT 7 FOR FULLTEXT)

**Williams Controls Announces GPS/GIS Contract Award, Honors From Freightliner**

PR Newswire, p0828DEW003

August 28, 1996

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 508

... to address a number of areas of interest to Tri-Rail. These include on board, **two way** messaging display and transmission, measurement of operational performance as compared to **schedules**, optimal emergency **vehicle** routing and planning, and real time customer service information displays to determine train location, speeds...

**14/3,K/70 (Item 43 from file: 16)**  
DIALOG(R)File 16:Gale Group PROMT(R)  
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04184684 Supplier Number: 46115040 (USE FORMAT 7 FOR FULLTEXT)  
**Motek Portable Products**  
UK Venture Capital Journal, n4, pN/A  
Feb 1, 1996  
Language: English Record Type: Fulltext  
Document Type: Newsletter; Trade  
Word Count: 148

... Doncaster, has exclusive mobile phone and paging hire arrangements with BT and Avis Rent-a-**Car**, and is the largest hirer of **two - way** radios, principally for customers in the construction and petrochemical industries. Together with the short term hire of personal pagers and **portable** satellite communication **equipment**, these activities resulted in a turnover of more than GBP3 million last year.

**14/3,K/71 (Item 44 from file: 16)**  
DIALOG(R)File 16:Gale Group PROMT(R)  
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04149984 Supplier Number: 46059268 (USE FORMAT 7 FOR FULLTEXT)  
**ILLINOIS POWER STREAMLINES DISPATCH OPERATIONS, OPTIMIZES PRODUCTIVITY WITH  
RAM MOBILE DATA WIRELESS SOLUTION; UTILITY GAINS COMPETITIVE EDGE THROUGH  
ENHANCED CUSTOMER SERVICE**  
PR Newswire, p0111FLTH020  
Jan 11, 1996  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 927

... data solution. The solution, when fully implemented, will consist of Alliance computer-aided dispatch and **scheduling** software, Telxon 1184 mobile data terminals (MDTs) and RAM's **two - way**, wireless data communications service. Technicians will be able to send and receive real-time information from dispatchers anytime, from virtually anywhere\*. The pen-based Telxon MDTs are **portable**, **vehicle** - docked **devices**.  
By June 1996, IP expects to have rolled out its wireless solution to 400 of...

**14/3,K/72 (Item 45 from file: 16)**  
DIALOG(R)File 16:Gale Group PROMT(R)  
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04132911 Supplier Number: 46031138  
**Missing link**  
Ward's Auto World, p68  
Jan, 1996

Language: English Record Type: Abstract  
Document Type: Magazine/Journal; Trade

ABSTRACT:

...pager services firm to offer AutoLink, a personal communications and vehicle security system. AutoLink offers **two - way** paging, global **navigation** assistance, **vehicle** tracking and immobilization, theft deterrence, emergency response calling, remote vehicle unlocking and information services. The...

**14/3,K/73 (Item 46 from file: 16)**

DIALOG(R)File 16:Gale Group PROMT(R)  
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04112350 Supplier Number: 45998490 (USE FORMAT 7 FOR FULLTEXT)

**Military GPS technology ends up in auto orbit**

Electronic Engineering Times, p97

Dec 11, 1995

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 370

... market option, the AutoLink system provides automatic emergency response, theft deterrence, vehicle tracking and immobilization, **two - way** personal paging, remote **vehicle** unlocking, driver personalization, **navigational** guidance and location-based information service.

Some of those features have previously been available. Cars...

**14/3,K/74 (Item 47 from file: 16)**

DIALOG(R)File 16:Gale Group PROMT(R)  
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04106192 Supplier Number: 45988059 (USE FORMAT 7 FOR FULLTEXT)

**Technology Update: Prince, SkyTel To Develop Auto Communication System**

Autoparts Report, v9, n23, pN/A

Dec 5, 1995

Language: English Record Type: Fulltext

Document Type: Newsletter; Trade

Word Count: 379

AutoLink features include: automatic emergency response, theft deterrent, vehicle tracking and immobilization, **two - way** personal paging, remote **vehicle** unlocking, driver personalization, **navigational** guidance, and location-based information services.

The AutoLink System will provide **two - way** wireless communications using narrowband person communications services technology developed by SkyTel, and will use a...

**14/3,K/75 (Item 48 from file: 16)**

DIALOG(R)File 16:Gale Group PROMT(R)  
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04093499 Supplier Number: 45965219 (USE FORMAT 7 FOR FULLTEXT)

**PRINCE AND SKYTEL ANNOUNCE 'AUTOLINK,' THE WORLD'S MOST COMPLETE AUTOMOTIVE SAFETY AND COMMUNICATIONS SYSTEM**

PR Newswire, p1128DETU003

Nov 28, 1995

Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 1333

... system.

The AutoLink System features include: automatic emergency response, theft deterrent, vehicle tracking and immobilization, **two - way** personal paging, remote **vehicle** unlocking, driver personalization, **navigational** guidance, and location-based information services.

The AutoLink System differs from other automotive communications systems...

**14/3,K/76 (Item 49 from file: 16)**  
DIALOG(R)File 16:Gale Group PROMT(R)  
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03985865 Supplier Number: 45786691 (USE FORMAT 7 FOR FULLTEXT)  
**ORBITAL AND TELEGLOBE SIGN FINAL AGREEMENTS FOR 36-SATELLITE ORBCOMM SYSTEM**  
PR Newswire, p913DC004  
Sept 13, 1995  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 795

... person-to-person global messaging, automotive and maritime communications, industrial asset monitoring, emergency rescue, stolen **vehicle** recovery and **two - way** e-mail communications for desk-top, laptop or palm-top computers or **personal digital assistants ( PDAs )**.

Teleglobe Inc. is a Canadian-based company recognized as a leader in the field of...

**14/3,K/77 (Item 50 from file: 16)**  
DIALOG(R)File 16:Gale Group PROMT(R)  
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03741497 Supplier Number: 45309845 (USE FORMAT 7 FOR FULLTEXT)  
**Orbital Communications Corporation**  
Eastern European & Former Soviet Telecom Report, v6 I, pN/A  
Feb 1, 1995  
Language: English Record Type: Fulltext  
Document Type: Newsletter; Trade  
Word Count: 167

(USE FORMAT 7 FOR FULLTEXT)  
TEXT:

...range of ORBCOMM services to 36 countries throughout Europe. The first two ORBCOMM satellites are **scheduled** for launch in the next few months and will provide an intermittent global coverage this...

...and mari- time communications, remote industrial asset monitoring, emergency rescue for remote recreation, stolen **vehicle** recovery and **two - way** e-mail communications for desk-top, laptop or palm-top computers or **personal digital assistant ( PDAs )**.

**14/3,K/78 (Item 51 from file: 16)**  
DIALOG(R)File 16:Gale Group PROMT(R)  
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03640567 Supplier Number: 45135519 (USE FORMAT 7 FOR FULLTEXT)

**MAKING THE PIECES FIT**

CommunicationsWeek, pMC5

Nov 14, 1994

Language: English Record Type: Fulltext

Document Type: Newsletter; Trade

Word Count: 2098

... the cellular industry. Paging services will gain acknowledgement features next year and will gravitate to **two - way** messaging services. PCS providers see **PDA's** as a perfect **vehicle** for delivering these services.

And for all its delays, services based on CDPD are showing...

**14/3,K/79 (Item 52 from file: 16)**

DIALOG(R)File 16:Gale Group PROMT(R)

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02703579 Supplier Number: 43611595 (USE FORMAT 7 FOR FULLTEXT)

**PACTEL TELETRAC INTRODUCES NEW WIRELESS INFORMATION AND COMMUNICATIONS NETWORK IN HOUSTON**

PR Newswire, p1

Jan 29, 1993

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 1038

... people can use in their cars everyday, like vehicle recovery services, emergency roadside assistance, in- **vehicle navigation** , motorist information services and **two - way** messaging."

Fleet Management Service Now Available

Teletrac computerized fleet management is the first service to...

**14/3,K/80 (Item 53 from file: 16)**

DIALOG(R)File 16:Gale Group PROMT(R)

(c) 2003 The Gale Group. All rts. reserv.

02664455 Supplier Number: 43551243 (USE FORMAT 7 FOR FULLTEXT)

**VENDING SMART: Bottlers can profit from high-tech breakthroughs**

Beverage Industry, v0, n0, p4

Jan, 1993

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 992

... areas, it tells you where every truck is and what it is doing. Pagers and **two - way** radios are no longer required, and the device can even tell when a **truck** is off its **scheduled** route, going too fast, or going too slow. It can also tell the cops where...

**14/3,K/81 (Item 54 from file: 16)**

DIALOG(R)File 16:Gale Group PROMT(R)

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02155982      Supplier Number: 42801966      (USE FORMAT 7 FOR FULLTEXT)  
**COMMERCIAL VEHICLE: ATA STUDY REVEALS CAUTIOUS APPROACH TO AVL TECHNOLOGY**  
Inside IVHS, v2, n5, pN/A  
March 2, 1992  
Language: English      Record Type: Fulltext  
Document Type: Newsletter; Trade  
Word Count:      623

...      in urban areas. Survey participants were asked to describe and evaluate their experiences with: CAD, **two - way** text transmission, AVL, in- **vehicle navigation** , automatic **vehicle** identification (AVI) and traffic information services.

The ATA says the market penetration of all six...

**14/3,K/82      (Item 1 from file: 148)**  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2003 The Gale Group. All rts. reserv.

11697746      SUPPLIER NUMBER: 58250743      (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Fleet management systems.**  
Modern Materials Handling, 54, 14, 65  
Dec 31, 1999  
ISSN: 0026-8038      LANGUAGE: English      RECORD TYPE: Fulltext  
WORD COUNT:      90      LINE COUNT:      00011

TEXT:

...identification system for industrial fleet management by ID Systems increases efficiencies in fleet utilization. Providing **two - way** communication between plant manager and vehicles, the system allows posting of work **schedules** directly to a **vehicle** operator and changes in work orders without incurring vehicle downtime. The program also tracks vehicle ...

**14/3,K/83      (Item 2 from file: 148)**  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2003 The Gale Group. All rts. reserv.

11684487      SUPPLIER NUMBER: 58835476      (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**IP Wherever You Are. (Industry Trend or Event)**  
STROM, DAVID  
Internet World, 6, 1, 51  
Jan 1, 2000  
ISSN: 1097-8291      LANGUAGE: English      RECORD TYPE: Fulltext  
WORD COUNT:      630      LINE COUNT:      00052

...      Expect to see more diverse and unusual devices connected to the Internet, including cellular phones, **two - way** pagers, **vehicle** -based **navigation** and communications devices, and home appliances.

All of this means the Internet will increasingly permeate...

**14/3,K/84      (Item 3 from file: 148)**  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2003 The Gale Group. All rts. reserv.

10731411      SUPPLIER NUMBER: 53520284      (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**The ITS metropolitan Model Development Initiative. (intelligent**

**transportation system)**

Wilbur, Toni  
Public Roads, 62, 3, 28(4)  
Nov-Dec, 1998  
ISSN: 0033-3735      LANGUAGE: English      RECORD TYPE: Fulltext; Abstract  
WORD COUNT: 2444      LINE COUNT: 00218

... traveler information is also available at kiosks and on a variety of personal devices, including **personal digital assistants**, **two-way** pagers, in- **vehicle navigation** devices, and interactive television. Expanded use of variable message signs and highway-advisory radio systems  
...

**14/3,K/85      (Item 4 from file: 148)**

DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2003 The Gale Group. All rts. reserv.

10525601      SUPPLIER NUMBER: 53068406      (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Sharp Introduces Fast, Low Power Compact Flash Cards.**  
Business Wire, 1474  
Oct 8, 1998  
LANGUAGE: English      RECORD TYPE: Fulltext  
WORD COUNT: 601      LINE COUNT: 00065

... for use in high demand, portable information tools. Applications include digital cameras and cellular phones, **PDA's**, personal communicators, **two-way** pagers, audio recorders, set-top boxes, **car navigation** and network and telecommunications equipment -- an ever-increasing range of products that allow people to...

**14/3,K/86      (Item 5 from file: 148)**

DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2003 The Gale Group. All rts. reserv.

08355032      SUPPLIER NUMBER: 17877626      (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Tantalizing tracker.(new electronic navigation and security feature for automobiles)**  
Martin, Norman  
Automotive Industries, v175, n12, p73(2)  
Dec, 1995  
ISSN: 0273-656X      LANGUAGE: English      RECORD TYPE: Fulltext; Abstract  
WORD COUNT: 928      LINE COUNT: 00080

... agreements." Features, according to Prince, include automatic emergency response, theft deterrence, vehicle tracking and immobilization, **two-way** personal paging, remote **vehicle** locking, driver personalization, **navigational** guidance, and location-based information services.

Disabling the system is difficult because the system has...

**14/3,K/87      (Item 6 from file: 148)**

DIALOG(R)File 148:Gale Group Trade & Industry DB  
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08348345      SUPPLIER NUMBER: 17915322      (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Military GPS technology ends up in auto orbit. (automotive electronics integrator Prince and wireless messaging service provider SkyTel develop**

**the AutoLink System global positioning system for automobiles)**

Bellinger, Robert

Electronic Engineering Times, n879, p97(1)

Dec 11, 1995

ISSN: 0192-1541

LANGUAGE: English

RECORD TYPE: Fulltext; Abstract

WORD COUNT: 400

LINE COUNT: 00035

...ABSTRACT: after-market product. The system provides automatic emergency response, theft deterrence, vehicle tracking and immobilization, **two - way** personal paging, remote **vehicle** unlocking, driver personalization, **navigational** guidance, and location-based information service. AutoLink uses **two - way** wireless communications using narrowband personal-communications-services technology from SkyTel; it incorporates a GPS receiver...

... market option, the AutoLink system provides automatic emergency response, theft deterrence, vehicle tracking and immobilization, **two - way** personal paging, remote **vehicle** unlocking, driver personalization, **navigational** guidance and location-based information service.

Some of those features have previously been available. Cars...

**14/3,K/88 (Item 7 from file: 148)**

DIALOG(R)File 148:Gale Group Trade & Industry DB

(c)2003 The Gale Group. All rts. reserv.

08017632 SUPPLIER NUMBER: 17326242 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**ELISRA SUCCESSFULLY SENDS MESSAGES TO U.S. FROM ISRAEL VIA ORBCOMM**

**SATELLITE**

PR Newswire, p725DC010

July 25, 1995

LANGUAGE: English

RECORD TYPE: Fulltext

WORD COUNT: 408

LINE COUNT: 00043

... global messaging, automotive and maritime communications, remote industrial asset, monitoring, recreational emergency distress reporting, stolen **vehicle** recovery and **two - way** e-mail communications for desk-top, laptop or palm-top computers or **personal digital assistants** ( **PDA**s ).

Orbital is a space technology company that designs, manufactures, operates, and markets a broad range...

**14/3,K/89 (Item 8 from file: 148)**

DIALOG(R)File 148:Gale Group Trade & Industry DB

(c)2003 The Gale Group. All rts. reserv.

08010656 SUPPLIER NUMBER: 16915679 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Seiko takes its FM tech to market: promotes MessageWatch subcarrier for general-purpose use. (Seiko Communications Systems talks with OEMs about using Seiko's Active FM network)**

Wirbel, Loring

Electronic Engineering Times, n846, p1(2)

May 1, 1995

ISSN: 0192-1541

LANGUAGE: English

RECORD TYPE: Fulltext; Abstract

WORD COUNT: 1111

LINE COUNT: 00090

... signal. Park said that this type of flexibility more than overrides any gripes from the **PDA** community that the system is a one-way communication stream.

" **Two - way** communications is interesting, but doesn't always lend

itself to low cost and low power...

**14/3,K/90 (Item 9 from file: 148)**

DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2003 The Gale Group. All rts. reserv.

07909390 SUPPLIER NUMBER: 16994941 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**ORBCOMM ENTERS INTO RESELLER AGREEMENT WITH CARIBBEAN SATELLITE SERVICES, INC.**

PR Newswire, p606DC030

June 6, 1995

LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT

WORD COUNT: 383 LINE COUNT: 00038

... messaging, automotive and maritime communications, remote industrial asset monitoring, emergency rescue for remote recreation, stolen **vehicle** recovery and **two - way** Internet e-mail communications for desk-top, laptop or palm-top computers or **personal digital assistants ( PDAs )**. The first two operational ORBCOMM spacecraft were launched in April.

The ORBCOMM global communications system...

**14/3,K/91 (Item 10 from file: 148)**

DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2003 The Gale Group. All rts. reserv.

07905134 SUPPLIER NUMBER: 16983979 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**ORBCOMM SIGNS RESELLER AGREEMENT WITH INNOVATIVE COMPUTING, A UNIT OF WESTINGHOUSE/THERMO KING**

PR Newswire, p606DC028

June 6, 1995

LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT

WORD COUNT: 451 LINE COUNT: 00043

... messaging, automotive and maritime communications, remote industrial asset monitoring, emergency rescue for remote recreation, stolen **vehicle** recovery and **two - way** Internet e-mail communications for desk-top, laptop or palm-top computers or **personal digital assistants ( PDAs )**. The first two operational ORBCOMM spacecraft were launched in early April.

The ORBCOMM global communications...

**14/3,K/92 (Item 11 from file: 148)**

DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2003 The Gale Group. All rts. reserv.

07834425 SUPPLIER NUMBER: 16905436 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**PST announces six month financial results.**

Business Wire, p4240067

April 24, 1995

LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT

WORD COUNT: 380 LINE COUNT: 00036

... manufactures, and sells the "Data Mate" mobile data terminal; a digital wireless communication system for **two - way** radios. Optional **peripheral equipment** for the Data Mate includes credit card readers, printers, and global positioning satellite receivers, (GPS), which can

pinpoint a **vehicle** 's location and transmit the information to fleet dispatchers. Bernard, Lee & Edwards is an NASD...

**14/3,K/93 (Item 12 from file: 148)**  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2003 The Gale Group. All rts. reserv.

07647427 SUPPLIER NUMBER: 16649415  
**Navigators sputter. (electronic vehicle guidance systems) (Emerging Markets: Smart Cars)**  
Costlow, Terry  
Electronic Engineering Times, n833, p64(1)  
Jan 30, 1995  
ISSN: 0192-1541 LANGUAGE: ENGLISH RECORD TYPE: ABSTRACT

...ABSTRACT: posit that most Americans are not willing to pay more than \$300 to \$800 for **vehicle navigators** , which currently cost more. If **two - way** communication capabilities for updating traffic patterns are added, the navigators will cost even more. Government...

**14/3,K/94 (Item 13 from file: 148)**  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
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07326594 SUPPLIER NUMBER: 16258122  
**Life without wires. (using wireless technology) (includes related article on Walgreen's going wireless)**  
Fryer, Bronwyn  
Computerworld, v28, n38, p99(2)  
Sept 19, 1994  
ISSN: 0010-4841 LANGUAGE: ENGLISH RECORD TYPE: ABSTRACT

...ABSTRACT: are relying on wireless technologies to accomplish business tasks. Popular items include cellular phones, pagers, **PDAs** and laptop computers. United Parcel Service Inc, for example, illustrates the expanding reliance on wireless technology. In 1993, the firm installed **two - way** wireless communications technology on approximately 60,000 of its **truck** fleet. Many IS staffs are not prepared for wireless technologies, however. Effective firms will make...

**14/3,K/95 (Item 14 from file: 148)**  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2003 The Gale Group. All rts. reserv.

06384969 SUPPLIER NUMBER: 13418755 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Vending smart; bottlers can profit from high-tech breakthroughs. (vending machines)**  
Guyette, James E.  
Beverage Industry, v84, n1, p4(5)  
Jan, 1993  
ISSN: 0148-6187 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 1023 LINE COUNT: 00082

... areas, it tells you where every truck is and what it is doing.  
Pagers and **two - way** radios are no longer required, and the device can even tell when a **truck** is off its **scheduled** route, going too fast, or going too slow. It can also tell the cops where...

14/3,K/96 (Item 15 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2003 The Gale Group. All rts. reserv.

05908687 SUPPLIER NUMBER: 12337400 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**On-board communications. (automobile electronics) (Column)**

Rivard, Jerry

Automotive Industries, v172, n6, p62(1)

June, 1992

DOCUMENT TYPE: Column ISSN: 0273-656X LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 694 LINE COUNT: 00060

... subsystems in need of coordination for effective communications performance, and low cost. These include the **vehicle** instrumentation, climate control, trip computer, **navigation**, radar headway control, diagnostics, entertainment and **two - way** radio phone.

All of these subsystems provide a critical interface with the driver in conveying...

14/3,K/97 (Item 16 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2003 The Gale Group. All rts. reserv.

05122026 SUPPLIER NUMBER: 10486009 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**IVHS. (Intelligent Vehicle Highway Systems; includes related articles on specific products)**

Automotive Engineering, v99, n3, p13(8)

March, 1991

ISSN: 0098-2571 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT

WORD COUNT: 3831 LINE COUNT: 00321

... are also referred to as Motorist Information Services, generally consist of the following components: \* A **navigation** system on board the **vehicle**

A traffic management center for the urban area

\* **Two - way** communication between their vehicle and the traffic management center

\* Sensors on the highway to detect...conducted in the Santa Monica SMART Corridor. This is a three-year program in which **cars** are equipped with **navigation** systems and connected via **two - way** radio communications to the Los Angeles and Caltrans Traffic Operations Centers. General Motors provided 25...

14/3,K/98 (Item 17 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2003 The Gale Group. All rts. reserv.

04772529 SUPPLIER NUMBER: 09139431 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**The road ahead for trucking.**

Candler, Julie

Nation's Business, v78, n7, p34(2)

July, 1990

CODEN: NBUSA ISSN: 0028-047X LANGUAGE: ENGLISH RECORD TYPE:  
FULLTEXT

WORD COUNT: 1816 LINE COUNT: 00146

... is now conducting field experiments with "smart cars on smart roads." Each experiment uses a **navigation** system aboard a **vehicle** , a traffic-control center, a **two - way** communications link between the driver and the center, and sensors along the highways to detect...

**14/3,K/99 (Item 18 from file: 148)**

DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2003 The Gale Group. All rts. reserv.

03862827 SUPPLIER NUMBER: 07136258 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**GM chairman addresses Town Hall of California. (General Motors, Roger B. Smith)**

PR Newswire, 0328DE013

March 28, 1989

LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT

WORD COUNT: 1116 LINE COUNT: 00090

... parts can talk to each other."

"Essentially," Smith continued, "there would be four pieces: a **navigation** system aboard the **vehicle** , a traffic control center for the urban area, a **two - way** communication link between the vehicle and the center, and sensors on the highway to detect...

**14/3,K/100 (Item 19 from file: 148)**

DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2003 The Gale Group. All rts. reserv.

03727945 SUPPLIER NUMBER: 07134960  
**Trucks go mobile. (mobile satellite services)**

Semilof, Margie

CommunicationsWeek, n241, p1(2)

March 27, 1989

ISSN: 0746-8121 LANGUAGE: ENGLISH RECORD TYPE: ABSTRACT

...ABSTRACT: band service and one-way C-band Radio Determination Satellite Service, while Qualcomm provides a **two - way** Ku-band service. The companies use a Loran-C **navigation** device to track a **truck** 's position and outfit a fleet of 200 trucks with the required hardware for between...

**14/3,K/101 (Item 20 from file: 148)**

DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2003 The Gale Group. All rts. reserv.

03131677 SUPPLIER NUMBER: 04788662 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Satellites offer telcos a choice.**

Scholz, Tim

Telephone Engineer & Management, v91, p78(4)

May 1, 1987

ISSN: 0040-263X LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT

WORD COUNT: 2383 LINE COUNT: 00191

... and a master data center. In addition, the remote station can be configured to provide **two - way** communications on one or more channels without interruption of the data stream.

The portable station utilizes a 1.8-meter semi-portable antenna along with electronics **equipment** complement in **portable** , shock-mounted cases.

These can be checked as baggage or shipped as air freight on **scheduled** airlines. It is transportable from the air terminal to the transmitting site in a vehicle...

**14/3,K/102 (Item 1 from file: 160)**

DIALOG(R)File 160:Gale Group PROMT(R)

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02405936

**Japan City Media Begins Tele-Terminal Service**

Comline Telecommunications December 21, 1989 p. 2

\*FULL TEXT AVAILABLE IN FORMAT 7 OR 9\* WORD COUNT: 120

... its "Tele-Terminal" service in the 23 wards of Tokyo. Tele-Terminal is a portable **two - way** MCA packet data communications service. The service allows **two - way** data communications with **portable devices** installed in **automobiles** or carried by salespersons, through the use of relay terminals. Communications between vending machines or...

**14/3,K/103 (Item 2 from file: 160)**

DIALOG(R)File 160:Gale Group PROMT(R)

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00364308

**The objective of an emergency-medical care system is to provide medical expertise on the scene of emergency as quickly as possible following a call for help, according to LG Hammer of Aquonics Inc's Pioneer Medical Div.**

Medical Electronics October, 1976 p. 49-52

... responding under the direct supervision of the physician in charge of EMS operation; 3) resuscitation **equipment**, such as **portable** defibrillators, monitoring scopes and recorders, oxygen and drug supply suction units; and 4) communication and medical telemetry systems providing instant **two - way** voice communication between the paramedic team at the scene of the emergency and the medical...

**14/3,K/104 (Item 1 from file: 275)**

DIALOG(R)File 275:Gale Group Computer DB(TM)

(c) 2003 The Gale Group. All rts. reserv.

02311422 SUPPLIER NUMBER: 55121708 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Devices Market: Not Quite Yet. (Industry Trend or Event)**

Haskin, David; Zelnick, Nate

Internet World, 5, 23, 21

June 21, 1999

ISSN: 1097-8291

LANGUAGE: English

RECORD TYPE: Fulltext; Abstract

WORD COUNT: 2282

LINE COUNT: 00183

...ABSTRACT: communicating with Internet devices will number 750 million by 2004. Among the better known Internet **devices** are **handheld** computers, wireless smart phones, TV set-top boxes, **two - way** pagers and devices that attach to **car** dashboards to provide maps.

**14/3,K/105 (Item 1 from file: 636)**

DIALOG(R)File 636:Gale Group Newsletter DB(TM)



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04973212 Supplier Number: 74027408 (USE FORMAT 7 FOR FULLTEXT)

**Products.**

Mobile Radio Technology, p74

April 1, 2001

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 2875

... product includes the Truck-PC, a Windows-based mobile data terminal with software applications for **two - way** digital messaging, in- **vehicle** map **navigation** and digital dispatching. These applications are accessed through the company's fleet dispatch Web site...

**14/3,K/106 (Item 2 from file: 636)**

DIALOG(R)File 636:Gale Group Newsletter DB(TM)

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04478580 Supplier Number: 57242107 (USE FORMAT 7 FOR FULLTEXT)

**Nissan Moves Forward With EV Plans.**

Electric Vehicles Energy Network Online Today, pNA

Nov 4, 1999

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 387

... on-line, accessing the car at an unmanned base station via a smart card.

The **vehicle** will include on-board satellite **navigation** with **two - way** communications with the station to ensure up to date information on where the vehicles are...

**14/3,K/107 (Item 3 from file: 636)**

DIALOG(R)File 636:Gale Group Newsletter DB(TM)

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04396806 Supplier Number: 55348856 (USE FORMAT 7 FOR FULLTEXT)

**MATSUSHITA: ATR-I and Matsushita developed English- Ja Japanese bi-directional speech translation technology.**

M2 Presswire, pNA

August 2, 1999

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 271

... Japanese speech, and vice versa.

ATR-I has researched incorporating ATR-MATRIX, the technology for **bi - directional** translation which ATR-ITL developed last October, into **portable devices** such as laptop PCs. On the other hand, Matsushita has commercialized such products as **car - navigation** systems, mobile phones and word processors using its noise-robust speech recognition and compact text...

**14/3,K/108 (Item 4 from file: 636)**

DIALOG(R)File 636:Gale Group Newsletter DB(TM)

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04132280 Supplier Number: 54241853 (USE FORMAT 7 FOR FULLTEXT)  
**MAGELLAN: Magellan Corporation and marine electronics leader Lowrance Electronics to merge.**  
M2 Presswire, pNA  
Jan 1, 1999  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 887

... applications; hand-held GPS products for land, air and sea navigation; satellite telephones; ORBCOMM personal **two - way** satellite messaging units; and the newly introduced Magellan 750NAV turn-by-turn **vehicle navigation** unit.

\* ORBCOMM commercial and industrial products for worldwide, **two - way** data communications via the world's first low-Earth-orbit satellite data messaging service.

\* Magellan...

**14/3,K/109 (Item 5 from file: 636)**  
DIALOG(R)File 636:Gale Group Newsletter DB(TM)  
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02953869 Supplier Number: 46011711 (USE FORMAT 7 FOR FULLTEXT)  
**COMMUNICATIONS #1: AUTOLINK SYSTEM UNITES POSITIONING, TWO WAY MESSAGING**  
Inside Its, v6, n1, pN/A  
Dec 18, 1995  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Trade  
Word Count: 1129

... 4, 1995). Features of the AutoLink system include automatic emergency response, vehicle tracking and immobilization, **two - way** personal paging, remote **vehicle** unlocking, **navigational** guidance and location-based information services. The system is being promoted to automakers as a...

**14/3,K/110 (Item 6 from file: 636)**  
DIALOG(R)File 636:Gale Group Newsletter DB(TM)  
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02740441 Supplier Number: 45560501 (USE FORMAT 7 FOR FULLTEXT)  
**ROCKWELL PICKS AND CHOOSES SPOTS IN WIRELESS**  
Wireless Business and Finance, v2, n11, pN/A  
May 24, 1995  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Trade  
Word Count: 272

... to seek out other opportunities as well for NexNet in "low-cost" vehicle location and **two - way** paging applications, Nexus said.

Also in **vehicle navigation**, Rockwell reached a deal with Japanese electronics conglomerate Zexel Corp. for its U.S. unit...

**14/3,K/111 (Item 7 from file: 636)**  
DIALOG(R)File 636:Gale Group Newsletter DB(TM)  
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02293235 Supplier Number: 44438667 (USE FORMAT 7 FOR FULLTEXT)  
**IDS MOBILE SIGNS AGREEMENT WITH ORBCOMM**  
Telecommunications Alert, v11, n31, pN/A  
Feb 14, 1994  
Language: English Record Type: Fulltext  
Document Type: Newsletter; Trade  
Word Count: 136

... are expected to cost between approximately \$100 and \$400 depending on features.

Potential applications include **two - way** messaging, emergency rescue locator beacons from remote recreation, automotive and maritime communications, remote industrial asset monitoring, stolen **vehicle** recovery and **two - way** e-mail communications for palm-top computers and **personal digital assistants**. -- CCMI News Bureau, Feb. 14  
Copyright 1994 United Communications Group

**14/3,K/112 (Item 8 from file: 636)**  
DIALOG(R)File 636:Gale Group Newsletter DB(TM)  
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02179246 Supplier Number: 44104093 (USE FORMAT 7 FOR FULLTEXT)  
**DOT TO CONSIDER PARTNERS FOR INTELLIGENT HIGHWAY EVALUATION**  
Land Mobile Radio News, v47, n36, pN/A  
Sept 17, 1993  
Language: English Record Type: Fulltext  
Document Type: Newsletter; Trade  
Word Count: 501

... to travelers. Devices could include portable communications with simple display or voice output, and in- **vehicle navigation** devices with associated communications equipment, global positioning system (GPS) receivers and graphics displays.

Other Tests Will Help Develop Law-Enforcement Applications

Other testing will involve **two - way** communications capabilities for emergency notification and security, monitoring technologies that would be used to track...

**14/3,K/113 (Item 9 from file: 636)**  
DIALOG(R)File 636:Gale Group Newsletter DB(TM)  
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01628580 Supplier Number: 42513009 (USE FORMAT 7 FOR FULLTEXT)  
**COMMUNICATIONS: MOTOROLA ASKS FCC TO ALLOCATE 10 MHZ FOR IVHS IN U.S.**  
Inside IVHS, v1, n22, pN/A  
Nov 11, 1991  
Language: English Record Type: Fulltext  
Document Type: Newsletter; Trade  
Word Count: 847

... available by then.

In the meantime, work is progressing on the ADVANCE (Advanced Driver and **Vehicle Advisory Navigation** Concept) project in Chicago, which features Motorola's navigation system and its communications technology. A **two - way** radio system will be used to transmit traffic and position data between the test vehicles...

14/3,K/114 (Item 10 from file: 636)  
DIALOG(R)File 636:Gale Group Newsletter DB(TM)  
(c) 2003 The Gale Group. All rts. reserv.

01539887 Supplier Number: 42234441 (USE FORMAT 7 FOR FULLTEXT)  
**NAVIGATION: ADVANCE IS OFFICIAL: SKINNER ANNOUNCES PROJECT AT LONG LAST**  
Inside IVHS, v1, n15, pN/A  
July 22, 1991  
Language: English Record Type: Fulltext  
Document Type: Newsletter; Trade  
Word Count: 737

... in Sunnyvale, Calif. is being used for the project.  
In addition to supplying the in- **vehicle navigation** systems,  
Motorola will supply a **two - way** radio system that will be used to  
transmit traffic and position data between the test...

14/3,K/115 (Item 11 from file: 636)  
DIALOG(R)File 636:Gale Group Newsletter DB(TM)  
(c) 2003 The Gale Group. All rts. reserv.

01517843 Supplier Number: 42165530 (USE FORMAT 7 FOR FULLTEXT)  
**IVHS: Traffic Management Systems Come a Step Closer**  
PRS Automotive Service, pN/A  
June 21, 1991  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Trade  
Word Count: 632

(USE FORMAT 7 FOR FULLTEXT)  
TEXT:  
...improve flow in urban areas. It implies more than just conventional  
traffic lights, but rather **two - way** communication between cars and  
traffic management sensors: On-board **navigation** systems in **cars** enable  
sensors on motorways to detect traffic speed and density. In urban areas,  
traffic management...

Set	Items	Description
S1	10	AU=(VOLKEL A? OR VOLKEL, A?)
S2	1176768	VEHICLE OR LORRY OR LORRIES OR TRUCK? OR AUTOMOBILE? OR CAR OR CARS
S3	5733148	TERMINAL? ? OR COMPUTER? ? OR PC? ? OR LAPTOP? OR PALM? PD- A? ? OR NOTEBOOK? OR WORKSTATION? OR NODE? ? OR CPU? ? OR ORG- ANIZER? ? OR DEVICE? ?
S4	91199	SCHEDUL? OR NAVIGAT? OR TIME TABLE OR DIARY
S5	54943	BIDIRECTION? OR (BI OR TWO OR MULTI)() (WAY OR DIRECTIONAL) OR MULTI()WAY
S6	3691	S2 AND S5
S7	93	S6 AND S3 AND S4
S8	34	S7 AND IC=G01C-021?
S9	0	S1 AND S5
S10	2	S1 AND S2
S11	36	S10 OR S8

? show file

File 344:Chinese Patents Abs Aug 1985-2003/Apr

(c) 2003 European Patent Office

File 347:JAPIO Oct 1976-2003/Jun(Updated 031006)

(c) 2003 JPO & JAPIO

File 350:Derwent WPIX 1963-2003/UD,UM &UP=200371

(c) 2003 Thomson Derwent

File 371:French Patents 1961-2002/BOPI 200209

(c) 2002 INPI. All rts. reserv.

11/5/1 (Item 1 from file: 347)  
DIALOG(R)File 347:JAPIO  
(c) 2003 JPO & JAPIO. All rts. reserv.

07442164 \*\*Image available\*\*  
DIRECT **NAVIGATION** SYSTEM

PUB. NO.: 2002-310675 [JP 2002310675 A]  
PUBLISHED: October 23, 2002 (20021023)  
INVENTOR(s): SHIMADA YUKIO  
APPLICANT(s): SHIMADA YUKIO  
KOBAYASHI MASAKAZU  
APPL. NO.: 2001-154661 [JP 20011154661]  
FILED: April 15, 2001 (20010415)  
INTL CLASS: **G01C-021/00** ; G08B-025/01; G08B-025/04; G08B-025/10;  
G08G-001/137; H04M-011/00

ABSTRACT

PROBLEM TO BE SOLVED: To organize a remote site monitoring system and trace system, which uses very high-speed internet communication by connecting a portable telephone or the like to a general communication modem which is built-in a **car navigation** system or a personal **computer** .

SOLUTION: In this direct **navigation** system, position information, sent from a mobile **terminal** , is displayed on a screen, automatic communication is started directly in real time with the party at the other end performing tracing or transmitting urgent information, when automatic mutual communication is performed by a business server function on screens of a plurality of portable telephones used at remote sites, and through remote monitoring, using display parts of the plurality of portable telephones used at remote sites and the use and construction of a CCD camera system, **two - way** communication is performed directly in real time with the plurality of portable telephones, such as opening and closing of a door or the like of an entrance, transmission of video, music and game software or interacting through an interphone, and illegal dump by passing a limited route with a **vehicle** , whereby large capacity information can be obtained on the screen.

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11/5/2 (Item 2 from file: 347)  
DIALOG(R)File 347:JAPIO  
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07180179 \*\*Image available\*\*  
**NAVIGATION** **DEVICE** , TRAFFIC INFORMATION PROVIDING **DEVICE** , PROGRAM STORAGE MEDIUM FOR **CAR NAVIGATION** **DEVICE** , AND PROGRAM STORAGE MEDIUM FOR TRAFFIC INFORMATION PROVIDING **DEVICE**

PUB. NO.: 2002-048570 [JP 2002048570 A]  
PUBLISHED: February 15, 2002 (20020215)  
INVENTOR(s): TANAKA EIICHI  
SHINADA SATORU  
ITO MASAYASU  
SASAKI MAKOTO  
TANAKA SHIGERU  
APPLICANT(s): SONY CORP  
APPL. NO.: 2000-232661 [JP 2000232661]  
FILED: August 01, 2000 (20000801)

INTL CLASS: G01C-021/00 ; G08G-001/09; G08G-001/0969

ABSTRACT

PROBLEM TO BE SOLVED: To provide a **car navigation** capable of regularly precisely detecting a **vehicle** position and gaining traffic information in a useful form.

SOLUTION: This **device** is constituted so as not to gain a correction data for DGPS by use of FM broadcasting but to gain the correction data for DGPS from a base station located near the **vehicle**, whereby the **vehicle** position can be regularly precisely detected. This **device** is also constituted so as not to gain traffic information by use of FM broadcasting but by accessing to a traffic information providing system by use of **two-way** communication, whereby the traffic information such as a place near the present position can be selectively and preferentially gained. Accordingly, the traffic information can be immediately gained when required, and necessary traffic information can be quickly gained.

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11/5/3 (Item 3 from file: 347)

DIALOG(R)File 347:JAPIO

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07154102 \*\*Image available\*\*

**NAVIGATION** METHOD FOR MOVING BODY, **NAVIGATION** SYSTEM FOR ONBOARD MOVING BODY, PORTABLE **NAVIGATION** SYSTEM, AND **COMPUTER** -READABLE STORAGE MEDIUM

PUB. NO.: 2002-022482 [JP 2002022482 A]

PUBLISHED: January 23, 2002 (20020123)

INVENTOR(s): HOSODA KOJI

APPLICANT(s): MAZDA MOTOR CORP

APPL. NO.: 2000-212984 [JP 2000212984]

FILED: July 13, 2000 (20000713)

INTL CLASS: G01C-021/00 ; G08G-001/005; G08G-001/0969; G09B-029/00;  
G09B-029/10; G01S-005/14

ABSTRACT

PROBLEM TO BE SOLVED: To improve the **navigation** function of a **navigation device** for a **navigation** system capable of **bidirectional** communication comprised of a main unit in an on board moving body and a portable subunit by utilizing location information received by the other **device**.

SOLUTION: The movement track information and movement predetermined path information of a motor **vehicle** computed by the main unit of the onboard motor **vehicle** are transmitted to the portable subunit. The subunit computes the present location and movement track information of itself and, on the basis of the computed information, map information, and the received information, displays on a display 25 a map image which indicates a symbol 58 of the present location of a subunit operator, its movement track 57, and the movement track 56 and movement predetermined path 59 of the motor **vehicle**.

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11/5/4 (Item 4 from file: 347)

DIALOG(R)File 347:JAPIO

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06547065     \*\*Image available\*\*  
TRAFFIC INFORMATION PROVIDING METHOD

PUB. NO.:        2000-132794   [JP 2000132794   A]  
PUBLISHED:      May 12, 2000 (20000512)  
INVENTOR(s):    KIM BEOM-SEOK  
APPLICANT(s):   SAMSUNG ELECTRONICS CO LTD  
APPL. NO.:      11-288412   [JP 99288412]  
FILED:          October 08, 1999 (19991008)  
PRIORITY:       9842435 [KR 9842435], KR (Korea) Republic of, October 10,  
                 1998 (19981010)  
INTL CLASS:     G08G-001/09;   **G01C-021/00** ; G01S-005/02

ABSTRACT

PROBLEM TO BE SOLVED: To simply receive desired traffic information by realizing **two - way** communication between an on board **car navigation** system and an information center.

SOLUTION: When a user requests traffic information by operating the **car navigation** system 210, the system 20 requires an adapter 220 to connect telephone to the information center 240. The adapter 220 controls a ratio telephone set 230 to connect communication between the center 240 and the **device** 210. When connection is completed by the adapter 220, the system 210 transmits present information of the **vehicle**, positional information and **vehicle** information around a specific place to the center 240. The center 240 analyzes the position of the **vehicle** and its traveling direction with a variety of receiving **vehicle** information and transmits traffic information within meshes corresponding to the present position of the **vehicle**, namely the number of meshes and traffic information of giving order to the system 210.

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11/5/5        (Item 5 from file: 347)  
DIALOG(R)File 347:JAPIO  
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06435322     \*\*Image available\*\*  
SYSTEM FOR PROVIDING ROAD TRAFFIC INFORMATION

PUB. NO.:        2000-020889   [JP 2000020889   A]  
PUBLISHED:      January 21, 2000 (20000121)  
INVENTOR(s):    KITAMURA FUMIAKI  
APPLICANT(s):   NISSAN DIESEL MOTOR CO LTD  
APPL. NO.:      10-184867   [JP 98184867]  
FILED:          June 30, 1998 (19980630)  
INTL CLASS:     G08G-001/0969;   **G01C-021/00** ; G08G-001/09

ABSTRACT

PROBLEM TO BE SOLVED: To provide necessary road information as necessary by calculating a zone position from the present position of a **vehicle** to a prescribed distance, and segmenting and transmitting road congestion information in the prescribed zone to the **vehicle** side.

SOLUTION: This system is provided with a **navigation device** 1 and a CPU 2 as a controller at a **vehicle** A side, and a road congestion information system 3 and a **vehicle** position capturing system 4 at an information center B side, and road traffic information is offered to a driver by **two**



- **way** communication between the **vehicle** A and the information center B. Then, this system is provided with a present position detecting means 5 and a speed detecting means 6 at the **vehicle** A side. The **vehicle** position capturing system 4 calculates a zone position from the present position of the **vehicle** to a prescribed position based on the present position and speed of the **vehicle** transmitted from the **vehicle**. The road congestion information system 3 segments and transmits road congestion information in the prescribed zone to the **CPU** 2 being a **vehicle** side controller, and the **navigation device** 1 offers the road congestion information in the zone to the driver.

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11/5/6 (Item 6 from file: 347)

DIALOG(R)File 347:JAPIO

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06176949 \*\*Image available\*\*

COMMUNICATION SYSTEM OF **VEHICLE**

PUB. NO.: 11-118498 [JP 11118498 A]

PUBLISHED: April 30, 1999 (19990430)

INVENTOR(s): NIIBE TADAYUKI

OGURO YUJIRO

ODA KAZUYA

OMURA HIROSHI

APPLICANT(s): MAZDA MOTOR CORP

APPL. NO.: 09-303535 [JP 97303535]

FILED: October 18, 1997 (19971018)

INTL CLASS: **G01C-021/00** ; G06F-017/60; G08G-001/09; G08G-001/0969;  
G09B-029/00; H04Q-007/38; H04L-012/28; G06F-017/30

#### ABSTRACT

PROBLEM TO BE SOLVED: To surely and quickly perform a communication with the outside of a **vehicle** by constituting a personal information recording medium having personal information recorded thereon so as to be connectable, and transmitting the record content of the personal information recording medium to the outside through a communicating means in the communication with the outside.

SOLUTION: This system is provided with a communication control **device** 20 and a **navigation device** 30 to receive and transmit a signal through, for example, a multiple transmission line. A communication adapter 11 is connected to the communication control **device** 20 to perform a **two - way** communication with an external radio station through a communication antenna 12. A card reader 13 for reading the record content of an information recording card (a smart card) as a personal information recording medium is connected to the communication control **device** 20. Personal information such as, for example, the name, address, telephone number and blood type of a driver is recorded in the smart card. The card reader 13 transfers the personal information related to the driver read from the inserted smart card to the communication control **device** 20.

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11/5/7 (Item 7 from file: 347)

DIALOG(R)File 347:JAPIO

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05970277    \*\*Image available\*\*

**NAVIGATION   SYSTEM FOR   AUTOMOBILE   USING REMOTE DOWN LOAD OF DATA**

PUB. NO.:        10-253377   [JP 10253377   A]  
PUBLISHED:       September 25, 1998 (19980925)  
INVENTOR(s):     OSHIZAWA HIDEAKAZU  
APPLICANT(s):    ZEXEL KK [000000] (A Japanese Company or Corporation), JP  
                  (Japan)  
APPL. NO.:       10-053196   [JP 9853196]  
FILED:           March 05, 1998 (19980305)  
PRIORITY:        7-816,107 [US 816107-1997], US (United States of America),  
                  March 11, 1997 (19970311)  
INTL CLASS:      [6]   **G01C-021/00** ; G06T-001/00; G08G-001/0969  
JAPIO CLASS:     46.1 (INSTRUMENTATION -- Measurement); 26.2 (TRANSPORTATION  
                  -- Motor Vehicles); 44.9 (COMMUNICATION -- Other); 45.9  
                  (INFORMATION PROCESSING -- Other)  
JAPIO KEYWORD:   R011 (LIQUID CRYSTALS); R102 (APPLIED ELECTRONICS -- Video  
                  Disk Recorders, VDR); R108 (INFORMATION PROCESSING -- Speech  
                  Recognition & Synthesis); R131 (INFORMATION PROCESSING --  
                  Microcomputers & Microprocessors); R304

**ABSTRACT**

PROBLEM TO BE SOLVED: To provide an onboard type **navigation** system for **automobiles** by simplifying a user's process of inputting a desired destination.

SOLUTION: A user of a **navigation** system on a **vehicle** contacts an operator at a remote communication center utilizing a cellular telephone or another optional wireless type **bidirectional** acoustic communication link. The user tells his desired destination to the operator. The operator at the communication center accesses a data base of a **computer** and the accurate position of the desired destination is decided based on the latitude/longitude, the address of streets or other similar information. Thereafter, the operator transmits information indicating the accurate position to the onboard type **vehicle navigation** system from the communication center through a data link. The onboard type **vehicle navigation** system receives the positional information and uses it to compute a course to the desired destination from the present position of the **vehicle** .

**11/5/8        (Item 8 from file: 347)**

DIALOG(R)File 347:JAPIO

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05949035    \*\*Image available\*\*

**IMAGE-DATA COLLECTING METHOD, IMAGE-DATA PROVIDING METHOD, MAP FORMING METHOD, POSITION-DATA PROVIDING METHOD, NAVIGATION DEVICE AND VEHICLE**

PUB. NO.:        10-232135   [JP 10232135   A]  
PUBLISHED:       September 02, 1998 (19980902)  
INVENTOR(s):     NUNOKAWA KATSUHIKO  
APPLICANT(s):    SONY CORP [000218] (A Japanese Company or Corporation), JP  
                  (Japan)  
APPL. NO.:       09-036435   [JP 9736435]  
FILED:           February 20, 1997 (19970220)  
INTL CLASS:      [6]   **G01C-021/00** ; G06T-001/00; G08G-001/0969; G09B-029/00  
JAPIO CLASS:     46.1 (INSTRUMENTATION -- Measurement); 26.2 (TRANSPORTATION  
                  -- Motor Vehicles); 30.2 (MISCELLANEOUS GOODS -- Sports &  
                  Recreation); 44.9 (COMMUNICATION -- Other); 45.9 (INFORMATION

PROCESSING -- Other)  
JAPIO KEYWORD:R011 (LIQUID CRYSTALS); R131 (INFORMATION PROCESSING --  
Microcomputers & Microprocessors); R304

ABSTRACT

PROBLEM TO BE SOLVED: To utilize the information such as images required by users by using **navigation devices** and the like by storing the image data photographed with a moving body in a central **device** together with the position data of the moving body.

SOLUTION: Scenery or the like is photographed with a photographing means of a moving body. The image data are transmitted together with the position data of the moving body and stored in a central **device** 30. At the next step, when the position data from a user is received on the side of the central **device** 30, the image data stored in accordance with the position are transmitted. As long as the storage of the corresponding image data on the side of the central **device** 30 is present, the intended image data such as the present position can be obtained in the **device** on the side of each user. The central **device** 30 performs **two - way** communications with **terminal devices** 10a, 10b, 10c...10n through the specified telephone circuits (radio-telephone circuits and the like). Furthermore, a data memory part 32 memorizes and stores various kinds of data under the control of data control part 31. The stored data are sequentially updated by the communications with the respective **terminal devices** 10a, 10b, 10c...10n.

11/5/9 (Item 9 from file: 347)

DIALOG(R)File 347:JAPIO

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05306270 \*\*Image available\*\*

**TWO - WAY** COMMUNICATION TYPE **CAR NAVIGATION DEVICE**

PUB. NO.: 08-261770 [JP 8261770 A]

PUBLISHED: October 11, 1996 (19961011)

INVENTOR(s): NONAKA SHINICHI  
TSUGI YASUSHI  
MARUMORI HIROKUNI  
TANAKA HIDEKAZU  
KINUGASA TOSHIRO  
SANO KENJI

APPLICANT(s): HITACHI LTD [000510] (A Japanese Company or Corporation), JP  
(Japan)

APPL. NO.: 07-067356 [JP 9567356]

FILED: March 27, 1995 (19950327)

INTL CLASS: [6] **G01C-021/00** ; G08G-001/13; G09B-029/10

JAPIO CLASS: 46.1 (INSTRUMENTATION -- Measurement); 22.3 (MACHINERY --  
Control & Regulation); 26.2 (TRANSPORTATION -- Motor  
Vehicles); 30.2 (MISCELLANEOUS GOODS -- Sports & Recreation);  
34.4 (SPACE DEVELOPMENT -- Communication)

JAPIO KEYWORD:R131 (INFORMATION PROCESSING -- Microcomputers &  
Microprocessors)

ABSTRACT

PURPOSE: To display positions of one's own **vehicle** and another party's **vehicle** on the same display thereby to confirm mutual positions, by setting a position- detecting means for detecting present positions of vehicles, a map memory means having map data stored therein, a photographing means for photographing circumstances surrounding the

vehicles, etc.

CONSTITUTION: A present position of one's own **vehicle** is detected by a position- detecting means 102. A map showing a path from the present position to a destination is synthesized based on map data read out, from a map memory means 104, which is displayed at a display means. Data of present positions of one's own **vehicle** and another party's **vehicle** are mutually exchanged by a communication means 111, and the position of the counterpart's **vehicle** is displayed on a display of the **car navigation device**. A mutual positional relationship is confirmed in this manner. Moreover, images photographed by photographing means 108a, 108b of the **vehicle** and messages input through a controller 109 are manipulated if necessary, thereby to send images and character data to secure mutual communication.

11/5/10 (Item 10 from file: 347)

DIALOG(R)File 347:JAPIO

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04034979 \*\*Image available\*\*

**NAVIGATION DEVICE**

PUB. NO.: 05-026679 [JP 5026679 A]  
PUBLISHED: February 02, 1993 (19930202)  
INVENTOR(s): YAMAUCHI KEIICHI  
APPLICANT(s): PIONEER ELECTRON CORP [000501] (A Japanese Company or Corporation), JP (Japan)  
APPL. NO.: 03-176890 [JP 91176890]  
FILED: July 17, 1991 (19910717)  
INTL CLASS: [5] **G01C-021/00** ; G01S-005/14; G09B-029/10  
JAPIO CLASS: 46.1 (INSTRUMENTATION -- Measurement); 26.2 (TRANSPORTATION -- Motor Vehicles); 30.2 (MISCELLANEOUS GOODS -- Sports & Recreation); 34.4 (SPACE DEVELOPMENT -- Communication); 44.9 (COMMUNICATION -- Other)  
JAPIO KEYWORD: R131 (INFORMATION PROCESSING -- Microcomputers & Microprocessors)  
JOURNAL: Section: P, Section No. 1553, Vol. 17, No. 302, Pg. 21, June 10, 1993 (19930610)

#### ABSTRACT

PURPOSE: To concurrently display the information of each **vehicle** and the information of other vehicles and concurrently grasp the present positions of all the multiple moving bodies by concurrently using a GPS satellite and the ground **two - way** communication.

CONSTITUTION: The position measuring data transmitted from a GPS satellite 5 are sent to GPS reception sections 11(sub -1), 11(sub -n) via satellite antennas 2(sub -1), 2(sub -n) of individual **devices**, and the present position information of each **vehicle** is calculated. It is sent to display sections 8(sub -1), 8(sub -n) via **navigation** units 6(sub -1), 6(sub -n) of a control means, and it is also sent to ground communication sections 7(sub -1), 7(sub -n). The communication sections 7(sub -1), 7(sub -n) transmit it to the outside via ground communication antennas 3(sub -1), 3(sub -n) and receive the information of other vehicles, and the information of each **vehicle** and the information of the other vehicles are concurrently displayed on the display screens of the display sections 8(sub -1), 8(sub -n) under the control of the units 6(sub -1), 6(sub -n).

11/5/11 (Item 1 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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015394354 \*\*Image available\*\*  
WPI Acc No: 2003-456495/200343  
XRPX Acc No: N03-363027

Navigation **system for vehicles e.g. car , has communication centre apparatus and navigation terminal performing two - way communication on network**

Patent Assignee: PIONEER CORP (PIOE ); PIONEER ELECTRONIC CORP (PIOE );  
KAWAKAMI T (KAWA-I)

Inventor: KAWAKAMI T

Number of Countries: 032 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20030040866	A1	20030227	US 2002228282	A	20020827	200343 B
JP 2003065783	A	20030305	JP 2001256779	A	20010827	200343
EP 1288624	A2	20030305	EP 200219042	A	20020827	200343

Priority Applications (No Type Date): JP 2001256779 A 20010827

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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US 20030040866	A1		31	G01C-021/34	
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JP 2003065783	A		21	G01C-021/00	
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EP 1288624	A2	E		G01C-021/34	
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Designated States (Regional): AL AT BE BG CH CY CZ DE DK EE ES FI FR GB  
GR IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR

Abstract (Basic): US 20030040866 A1

NOVELTY - The system has a communication centre apparatus (3) comprising a map database, a **device** for searching a route with respect to origin and destination. The guidance positions located on the searched route are transmitted through a network (1) by a circuit access **device** (71). The system also includes a **navigation terminal** with receiver and a display **device** for showing the map position of the route.

DETAILED DESCRIPTION - The guidance positions transmitted by the communication centre contains information regarding the direction and the route to be advanced at each guidance points. The guidance position refers to a point on a short route such as a branching point, an intersection, a bridge and a tunnel. A **navigation terminal** uses a global positioning system receiver to receive the guidance position information signal. INDEPENDENT CLAIMS are also included for the following

(a) a **computer** data signal embodied in a carrier wave and representing a series of instructions that cause a **computer** to perform **navigation** method

(b) a data storage **device** .

USE - Used for vehicles e.g. **car** .

ADVANTAGE - The system provides display of the recommended route at the communication **navigation terminal** and reduces the volume of data transmitted or received between the communication networks.

DESCRIPTION OF DRAWING(S) - The drawing shows the inner structure of the communication centre apparatus used in **navigation** system.

Communication network (1)

Communication centre apparatus (3)

Circuit access **device** (71)

Microprocessor (72)

Communication control **device** (73)

Timer circuit. (82)  
 pp; 31 DwgNo 3/11  
 Title Terms: **NAVIGATION** ; SYSTEM; **VEHICLE** ; **CAR** ; COMMUNICATE; CENTRE;  
 APPARATUS; **NAVIGATION** ; **TERMINAL** ; PERFORMANCE; TWO; WAY; COMMUNICATE;  
 NETWORK  
 Derwent Class: P85; S02; T01; W06; X22  
 International Patent Class (Main): **G01C-021/00** ; **G01C-021/34**  
 International Patent Class (Additional): G08G-001/137; G09B-029/00;  
 G09B-029/10  
 File Segment: EPI; EngPI

11/5/12 (Item 2 from file: 350)  
 DIALOG(R)File 350:Derwent WPIX  
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015241935 \*\*Image available\*\*  
 WPI Acc No: 2003-302861/200330  
 XRPX Acc No: N03-240786

**Communication navigation system comprise communication center apparatus  
 and communication navigation terminal , which transmit and receive  
 information via communication network**

Patent Assignee: PIONEER CORP (PIOE ); PIONEER ELECTRONIC CORP (PIOE )  
 Inventor: FUJITA T; FUKUSHIMA A; KOGA Y  
 Number of Countries: 032 Number of Patents: 003  
 Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 1288620	A2	20030305	EP 200219664	A	20020903	200330 B
US 20030078726	A1	20030424	US 2002231460	A	20020830	200330
JP 2003075180	A	20030312	JP 2001266473	A	20010903	200330

Priority Applications (No Type Date): JP 2001266473 A 20010903

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 1288620	A2	E	30	G01C-021/26	
Designated States (Regional): AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR					
US 20030078726	A1			G01C-021/34	
JP 2003075180	A		21	G01C-021/00	

Abstract (Basic): EP 1288620 A2

NOVELTY - The system comprise a communication center apparatus (3)  
 and a communication **navigation terminal** (5), both of which transmit  
 and receive information by a **two - way** communication through a  
 communication network (1, 2).

DETAILED DESCRIPTION - The communication center apparatus (3)  
 comprise:

(1) a map database for storing in there map database information  
 including information for a route search, which enables the route  
 search from a current position of a movable body to a destination by a  
 predetermined algorithm;

(2) a search **device** for searching, by the predetermined  
 algorithm, for a route heading to the destination from the current  
 position, on the basis of the map database information including the  
 information for the route search, from the destination and the current  
 position received through the communication network; and

(3) a center side wireless **device** for wirelessly transmitting  
 route information indicating the researched route through the  
 communication network.

The communication **navigation terminal** (5) comprise:

- (1) a measurement **device** to measure the current position;
- (2) a **terminal** side wireless **device** to transmit the measured current position and receive the transmitted route information through the communication network; and
- (3) a route **navigation device** to selectively perform a route **navigation** on the searched route on the basis of the measured current position and the received route information or performing a simple **navigation** with a lower accuracy than that of the route **navigation** on a route other than the searched route on the basis of the measured current position.

USE - For controlling the driving of a **vehicle** .

ADVANTAGE - Enables a quick return to a preset drive route in case that a movable body deviates from a route of a preset drive plan and even if the area is out of a service area of the communication **navigation** system.

DESCRIPTION OF DRAWING(S) - The figure shows a block diagram of the whole structure of the communication **navigation** system.

Communication network (1, 2)

Communication center apparatus (3)

Communication **navigation terminal** (5)

pp; 30 DwgNo 1/9

Title Terms: COMMUNICATE; **NAVIGATION** ; SYSTEM; COMPRISE; COMMUNICATE; APPARATUS; COMMUNICATE; **NAVIGATION** ; **TERMINAL** ; TRANSMIT; RECEIVE; INFORMATION; COMMUNICATE; NETWORK

Derwent Class: P85; S02; T01; T07; W06; X22

International Patent Class (Main): **G01C-021/00** ; **G01C-021/26** ; **G01C-021/34**

International Patent Class (Additional): G08G-001/137; G09B-029/00; G09B-029/10

File Segment: EPI; EngPI

11/5/13 (Item 3 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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015231038 \*\*Image available\*\*

WPI Acc No: 2003-291962/200329

XRPX Acc No: N03-232226

**Communication navigation system e.g. for motor vehicle has processing device for performing route search on basis of stored travelling locus recorded when vehicle is driving out of service area of communication navigation system**

Patent Assignee: PIONEER CORP (PIOE ); PIONEER ELECTRONIC CORP (PIOE )

Inventor: FUKUSHIMA A; TAKENAKA T

Number of Countries: 032 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 1288621	A2	20030305	EP 200219665	A	20020903	200329 B
US 20030060975	A1	20030327	US 2002231462	A	20020830	200329
JP 2003075162	A	20030312	JP 2001266476	A	20010903	200329

Priority Applications (No Type Date): JP 2001266476 A 20010903

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 1288621	A2	E	35	G01C-021/26	

Designated States (Regional): AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR

US 20030060975	A1	G01C-021/34
JP 2003075162	A	28 G01C-021/00

Abstract (Basic): EP 1288621 A2

NOVELTY - The system includes a communication **navigation terminal** (5) interconnected by a communication line network to a communication center apparatus (3), that has a map database in which routes can be searched in response to a **vehicle** 's current GPS position and required destination. The communication **navigation terminal** includes a traveling locus recording **device** for preferentially holding a traveling locus recorded when the **vehicle** is driving out of a service area of the communication **navigation** system. A processing **device** performs a route search on the basis of the stored traveling locus.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for: (i) a **computer** program of instructions used in the system; (ii) a communication **navigation terminal** for transmitting and receiving information by **two - way** communication through a communication network w.r.t a communication center; and (iii) a communication **navigation** method implemented in the above communication **navigation** system. The communication line network includes a digital point-to-point communication line network (1) and a digital mobile communication network, that are interconnected by a gateway (GW) for communication protocol conversion.

USE - For enabling route searching in motor **vehicle navigation** system. Can also be used as **navigation** system for ship, airplane or bicycle or for a pedestrian who uses a mobile phone or mobile or hand-carried information **terminal** .

ADVANTAGE - Enables search for a route to be traveled even if movable body such as **vehicle** goes out of service area of the communication **navigation** system.

DESCRIPTION OF DRAWING(S) - The drawing shows a block diagram of the communication **navigation** system.

digital point-to-point communication line network (1)

cell base station (2a)

communication center apparatus (3)

communication **terminal** (4)

communication **navigation terminal** (5)

pp; 35 DwgNo 1/13

Title Terms: COMMUNICATE; **NAVIGATION** ; SYSTEM; MOTOR; **VEHICLE** ; PROCESS; **DEVICE** ; PERFORMANCE; ROUTE; SEARCH; BASIS; STORAGE; TRAVEL; LOCUS; RECORD; **VEHICLE** ; DRIVE; SERVICE; AREA; COMMUNICATE; **NAVIGATION** ; SYSTEM

Derwent Class: S02; T01; T07; W01; W02; W06; X22

International Patent Class (Main): **G01C-021/00** ; **G01C-021/26** ; **G01C-021/34**

International Patent Class (Additional): G08G-001/137; H04Q-007/38

File Segment: EPI

11/5/14 (Item 4 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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015219727 \*\*Image available\*\*

WPI Acc No: 2003-280639/200328

XRPX Acc No: N03-222774

**Communication navigation system e.g. for motor vehicle , transmits announcement information from communication center to vehicle if at least a portion of planned route is presently out of service area of communication navigation system**

Patent Assignee: PIONEER CORP (PIOE ) ; PIONEER ELECTRONIC CORP (PIOE )



Inventor: FUKUSHIMA A; TORU F; FUJITA T  
Number of Countries: 032 Number of Patents: 004  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 1288622	A2	20030305	EP 200219666	A	20020903	200328 B
JP 2003075179	A	20030312	JP 2001266470	A	20010903	200328
US 20030050751	A1	20030313	US 2002232818	A	20020903	200328
US 6584402	B2	20030624	US 2002232818	A	20020903	200343

Priority Applications (No Type Date): JP 2001266470 A 20010903

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
EP 1288622	A2	E 34	G01C-021/26	
Designated States (Regional): AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR				
JP 2003075179	A	22	G01C-021/00	
US 20030050751	A1		G01C-021/34	
US 6584402	B2		G01C-021/34	

Abstract (Basic): EP 1288622 A2

NOVELTY - The system includes a communication center apparatus (3) and a communication **terminal** apparatus (4, 5), both of which transmit and receive information by **two - way** communication through a communication network (1,2). The communication center apparatus has a processing **device** for generating request correspondence information including route information indicating a planned route corresponding to request information and generating, if at least one portion of the planned route is present out of a service area of the communication **navigation** system, announcement information for announcing this fact to a **vehicle** .

DETAILED DESCRIPTION - The system also includes a center side communication **device** for receiving the request information and transmitting the request correspondence information and the announcement information through the communication network. The communication **terminal** apparatus includes a GPS receiver and is provided with a **terminal** side communication **device** for transmitting the request information and receiving at least the announcement information through the communication network, and an input **device** for inputting the request information and giving an opportunity of inputting the request information in response to the reception of the announcement information.

INDEPENDENT CLAIMS are included for: (i) a communication center apparatus for transmitting and receiving information by **two - way** communication through a communication network w.r.t a communication **terminal** apparatus, the communication network including a digital fixed communication circuit network (1) and a digital mobile communication network (2) interconnected by a gateway (GW) for protocol conversion; (ii) a **computer** program of instructions executable by a **computer** to perform a communication **navigation** method; and (iii) a communication **navigation** method executed in the above communication **navigation** system.

USE - **Navigation** system for motor **vehicle** , airplane, ship or bicycle or for a pedestrian who uses a mobile phone or mobile or hand-carried information **terminal** .

ADVANTAGE - Can restrain deterioration in function of **navigation** operation because of communication inability even if **vehicle** goes out of service area of the communication **navigation** system.

DESCRIPTION OF DRAWING(S) - The drawing shows a block diagram of the communication **navigation** system.

digital fixed communication circuit network (1)

digital mobile communication network (2)  
cell base station (2a)  
communication center apparatus (3)  
communication **terminal** (4)  
communication **navigation terminal** (5)  
mobile communication central control apparatus (6)  
pp; 34 DwgNo 1/12

Title Terms: COMMUNICATE; **NAVIGATION** ; SYSTEM; MOTOR; **VEHICLE** ; TRANSMIT;  
ANNOUNCE; INFORMATION; COMMUNICATE; **VEHICLE** ; PORTION; PLAN; ROUTE;  
SERVICE; AREA; COMMUNICATE; **NAVIGATION** ; SYSTEM  
Derwent Class: S02; T01; T07; W01; W02; W06; X22  
International Patent Class (Main): **G01C-021/00** ; **G01C-021/26** ;  
**G01C-021/34**  
International Patent Class (Additional): G08G-001/137; G09B-029/00;  
G09B-029/10  
File Segment: EPI

11/5/15 (Item 5 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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014764863 \*\*Image available\*\*  
WPI Acc No: 2002-585567/200263  
XRPX Acc No: N02-464451

**Road map displaying method for automotive vehicle includes setting up geographical window regarding actual movements of vehicle , checking whether vehicle remains inside or outside window**

Patent Assignee: SIEMENS AG (SIEI ); VOLKEL A (VOLK-I)

Inventor: VOELKEL A; **VOLKEL A**

Number of Countries: 027 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 1233392	A1	20020821	EP 2001103318	A	20010213	200263 B
US 20020123842	A1	20020905	US 200273351	A	20020213	200265

Priority Applications (No Type Date): EP 2001103318 A 20010213

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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EP 1233392	A1	E	11	G09B-029/10	
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Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT  
LI LT LU LV MC MK NL PT RO SE SI TR

US 20020123842	A1	G01C-021/32
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Abstract (Basic): EP 1233392 A1

NOVELTY - The method includes setting up a geographical window (50, 52, 56, 58) regarding actual movements of the **vehicle** , checking (64, 66, 68, 70) whether the **vehicle** remains inside (1) or outside (2) the window. If inside, the movements are displayed whilst at least partially suppressing such maintaining, and if outside, the movements are displayed whilst upholding such maintaining.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for an automotive **vehicle** route display system.

USE - For displaying a road map in a motor **vehicle** .

ADVANTAGE - Restricts the amount and/ or number of rotations in displaying such map to prevent embarrassing the driver and/ or detracting his attention from other incidents that could warrant immediate action.

DESCRIPTION OF DRAWING(S) - The figure shows a flow chart of the control operation.

pp; 11 DwgNo 6/9  
Title Terms: ROAD; MAP; DISPLAY; METHOD; AUTOMOTIVE; **VEHICLE** ; SET; UP;  
GEOGRAPHICAL; WINDOW; ACTUAL; MOVEMENT; **VEHICLE** ; CHECK; **VEHICLE** ;  
REMAINING; WINDOW  
Derwent Class: P85; T01; X22  
International Patent Class (Main): G01C-021/32; G09B-029/10  
File Segment: EPI; EngPI

11/5/16 (Item 6 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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014713279 \*\*Image available\*\*  
WPI Acc No: 2002-533983/200257  
XRPX Acc No: N02-423154

Navigation device for motor vehicle , has portable navigation unit  
with GPS receiver performing two way communication with vehicle  
mounted navigation unit

Patent Assignee: MATSUSHITA DENKI SANGYO KK (MATU )  
Number of Countries: 001 Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2002181555	A	20020626	JP 2000379869	A	20001214	200257 B

Priority Applications (No Type Date): JP 2000379869 A 20001214

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 2002181555	A		24	G01C-021/00	

Abstract (Basic): JP 2002181555 A

NOVELTY - Portable **navigation** unit (200) has mobile communication unit (22), and GPS receiver section (21) for guiding the user to the destination. Portable **navigation** unit performs **two way** communication with a **vehicle** mounted **navigation** unit (100) having map database (16) and GPS receiver (11) for determining **vehicle** position.

USE - **Navigation device** for motor **vehicle** .

ADVANTAGE - Enables guiding the user to the destination correctly by detecting present position based on the output of the GPS receiver of the portable **navigation** unit carried by the user without increasing the cost of the **device** .

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of the **navigation device** . (Drawing includes non-English language text).

GPS receiver (11)

Map database (16)

GPS receiver section (21)

Mobile communication unit (22)

**Vehicle** mounted **navigation** unit (100)

Portable **navigation** unit (200)

pp; 24 DwgNo 1/11

Title Terms: **NAVIGATION** ; **DEVICE** ; MOTOR; **VEHICLE** ; PORTABLE;  
**NAVIGATION** ; UNIT; GROUP; RECEIVE; PERFORMANCE; TWO; WAY; COMMUNICATE;  
**VEHICLE** ; MOUNT; **NAVIGATION** ; UNIT  
Derwent Class: P85; S02  
International Patent Class (Main): **G01C-021/00**  
International Patent Class (Additional): G08G-001/005; G08G-001/0969;  
G09B-029/00; G09B-029/10  
File Segment: EPI; EngPI

11/5/17 (Item 7 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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014680937 \*\*Image available\*\*  
WPI Acc No: 2002-501641/200254  
XRPX Acc No: N02-397058

**Mobile unit for information, navigation, communication and emergency call system has combined transceiver and position location device providing emergency call function**

Patent Assignee: FREY H (FREY-I); HERPOLSHEIMER W (HERP-I); RUNGE B (RUNG-I)

Inventor: FREY H; HERPOLSHEIMER W; RUNGE B

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 10064978	C1	20020725	DE 1064978	A	20001215	200254 B

Priority Applications (No Type Date): DE 1064978 A 20001215

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
DE 10064978	C1	8	G01C-021/04	

Abstract (Basic): DE 10064978 C1

NOVELTY - The mobile unit is provided as a transportable hand-held **device**, operating as a universal communication and positioning **device** for **bidirectional** data transmission and position evaluation via a combined transceiver and location **device**, with a transmitter (11), a receiver (12) and a position location component (13). The mobile unit has operating controls and input **devices** for connection to a control station, a base station and/or a positioning system and for direct communication with a regional emergency call response system.

USE - The mobile unit is used for an information, **navigation**, communication and emergency call system for a **vehicle** driver or for personal use, e.g. for sailor, climber or skier.

ADVANTAGE - The mobile unit can be used in place of a mobile telephone for providing auxiliary information, **navigation** and emergency call functions.

DESCRIPTION OF DRAWING(S) - The figure shows a schematic representation of a mobile unit for information, **navigation**, communication and emergency call system.

Transmitter (11)

Receiver (12)

Position location component (13)

pp; 8 DwgNo 3/3

Title Terms: MOBILE; UNIT; INFORMATION; **NAVIGATION**; COMMUNICATE; EMERGENCY; CALL; SYSTEM; COMBINATION; TRANSCEIVER; POSITION; LOCATE; **DEVICE**; EMERGENCY; CALL; FUNCTION

Derwent Class: S02; W01; W02; W06; X22

International Patent Class (Main): **G01C-021/04**

International Patent Class (Additional): G01S-005/02; G08G-001/0968; H04B-001/38; H04Q-007/32

File Segment: EPI

11/5/18 (Item 8 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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014461657      \*\*Image available\*\*

WPI Acc No: 2002-282360/200233

XRPX Acc No: N02-220512

Vehicle navigation device using radio determination or location has  
devices for receiving correction data by two - way communications  
from nearest base station for position correction

Patent Assignee: SONY CORP (SONY ); ITO M (ITOM-I); SASAKI M (SASA-I);  
SHINADA A (SHIN-I); TANAKA E (TANA-I); TANAKA S (TANA-I)

Inventor: ITO M; SASAKI M; SHINADA A; TANAKA E; TANAKA S

Number of Countries: 003 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 10137606	A1	20020221	DE 1037606	A	20010801	200233 B
JP 2002048570	A	20020215	JP 2000232661	A	20000801	200233
US 20020049531	A1	20020425	US 2001918943	A	20010731	200233
US 6546333	B2	20030408	US 2001918943	A	20010731	200327

Priority Applications (No Type Date): JP 2000232661 A 20000801

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
DE 10137606	A1		16	G01S-005/12	
JP 2002048570	A		11	G01C-021/00	
US 20020049531	A1			G01C-021/26	
US 6546333	B2			G01C-021/00	

Abstract (Basic): DE 10137606 A1

NOVELTY - The **vehicle navigation device** (10) has **devices**  
for determining information about a position that has just occurred  
using radio determination or radio location, **devices** for receiving  
correction data by **bi - directional** communications from the nearest  
base station (3) for correcting the current position and **devices** for  
correcting the information for the position using the correction data.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the  
following: a traffic information source, a program recording medium for  
a **navigation device** and a program recording medium for a traffic  
information source.

USE - For **vehicle navigation** .

ADVANTAGE - Overcomes certain disadvantages of conventional  
arrangements, e.g. the problem of not receiving traffic information  
when required, and always determines positions very accurately.

DESCRIPTION OF DRAWING(S) - The drawing shows a schematic  
representation of the communications processes for a **vehicle** with a  
**navigation device** (Drawing includes non-English text)

**vehicle** (1)

**vehicle navigation device** (10)

base stations (3)

traffic information source (2)

pp; 16 DwgNo 1/8

Title Terms: **VEHICLE ; NAVIGATION ; DEVICE ; RADIO; DETERMINE; LOCATE;**  
**DEVICE ; RECEIVE; CORRECT; DATA; TWO; WAY; COMMUNICATE; NEARBY; BASE;**  
**STATION; POSITION; CORRECT**

Derwent Class: S02; T01; T07; X22

International Patent Class (Main): **G01C-021/00 ; G01C-021/26 ;**  
**G01S-005/12**

International Patent Class (Additional): G08G-001/00; G08G-001/09;  
G08G-001/0969

File Segment: EPI

11/5/19 (Item 9 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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014278327 \*\*Image available\*\*

WPI Acc No: 2002-099028/200214

XRPX Acc No: N02-073201

Vehicle navigation system is physically interfaced to data communication facility pertaining organizer device

Patent Assignee: MANNESMANN VDO AG (MANS ); VOLKEL A (VOLK-I)

Inventor: VOELKEL A; VOLKEL A

Number of Countries: 026 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 1152217	A1	20011107	EP 2000201493	A	20000425	200214 B
US 20020032522	A1	20020314	US 2001841258	A	20010424	200222

Priority Applications (No Type Date): EP 2000201493 A 20000425

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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EP 1152217	A1	E	9	G01C-021/26	
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Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT  
LI LT LU LV MC MK NL PT RO SE SI

US 20020032522	A1		G01C-021/34
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Abstract (Basic): EP 1152217 A1

NOVELTY - A **vehicle** navigation system is provided with various interlinked facilities such as user input/output facility, route planning facility and position determining facility. The navigation system is physically interfaced to data communication facility pertaining to organizer device.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for **vehicle** navigation system operating method.

USE - **Vehicle0** navigation system.

ADVANTAGE - Physically combining navigation system with organizer device provides more efficient coupling and retro coupling between various components of the hybridized organization and therefore raises productivity.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of the interacting combination of navigation system and organizer.

pp; 9 DwgNo 6/6

Title Terms: **VEHICLE** ; NAVIGATION; SYSTEM; PHYSICAL; INTERFACE; DATA; COMMUNICATE; FACILITY; PERTAIN; DEVICE

Derwent Class: S02; T01; X22

International Patent Class (Main): G01C-021/26; G01C-021/34

File Segment: EPI

11/5/20 (Item 10 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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014224734 \*\*Image available\*\*

WPI Acc No: 2002-045432/200206

XRPX Acc No: N02-033946

ITS vehicle -mounted terminal system uses information center to perform communication of object information between vehicles such that object information can be displayed in layers on map based on coordinate dat

Patent Assignee: NIPPON DENKI SOFTWARE KK (NIDE )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2001289642	A	20011019	JP 2000103566	A	20000405	200206 B

Priority Applications (No Type Date): JP 2000103566 A 20000405

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 2001289642	A	8	G01C-021/00	

Abstract (Basic): JP 2001289642 A

NOVELTY - A server (11) in an information center (10) receives the transmitted object information from each **vehicle** via an internet (20) or a public circuit (40). Other **vehicle** receives the transmitted object information from the first **vehicle** through the information center, and displays the received object information in layers on a map based on a coordinate information included in the object information.

DETAILED DESCRIPTION - An object information is input in layers into the displayed map when a user in one **vehicle** transmits the information to other **vehicle**. Each ITS **vehicle** terminal system (50A-50C) holds a coordinate information to the object information input by the user. An INDEPENDENT CLAIM is also included for a communication method.

USE - ITS **vehicle** -mounted **terminal** system e.g. **vehicle** navigation system.

ADVANTAGE - Ensures **bidirectional** information exchange of object information e.g. character and graphic, between vehicles.

DESCRIPTION OF DRAWING(S) - The figure shows the profile diagram of ITS **vehicle** -mounted **terminal** system. (Drawing includes non-English language text).

Information center (10)

Server (11)

Internet (20)

Public circuit (40)

ITS **vehicle** **terminal** system (50A-50C)

pp; 8 DwgNo 1/8

Title Terms: **VEHICLE** ; MOUNT; **TERMINAL** ; SYSTEM; INFORMATION; PERFORMANCE ; COMMUNICATE; OBJECT; INFORMATION; **VEHICLE** ; OBJECT; INFORMATION; CAN; DISPLAY; LAYER; MAP; BASED; COORDINATE; DAT

Derwent Class: P85; S02; T01; T07

International Patent Class (Main): **G01C-021/00**

International Patent Class (Additional): G08G-001/09; G08G-001/0969; G09B-029/00

File Segment: EPI; EngPI

11/5/21 (Item 11 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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014184704 \*\*Image available\*\*

WPI Acc No: 2002-005401/200201

XRPX Acc No: N02-004491

**Information provision device for two-wheeled motor vehicle , provides radio communication equipments in helmets for voice bidirectional wireless communication**

Patent Assignee: TOSHIBA KK (TOKE )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2001280982	A	20011010	JP 200099737	A	20000331	200201 B

Priority Applications (No Type Date): JP 200099737 A 20000331

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 2001280982	A		9	G01C-021/00	

Abstract (Basic): JP 2001280982 A

NOVELTY - Helmets (5,4) for driver and pillion-rider are arranged. When space between helmets is within specific limits, radio communication equipments (4a,5a) in the helmets provide voice **bidirectional** wireless communication between the helmets.

USE - For two-wheeled motor **vehicle** such as motorcycle.

ADVANTAGE - The driver and the pillion-rider can do communication easily, while driving the **vehicle** . The rear situation of the **vehicle** can be easily understood. Traffic information path guide of **navigation** is obtained. Improvements in driving safety are achieved.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of components of information provision **device** . (Drawing includes non-English language text).

Helmets (4,5)

Radio communication equipments (4a,5a)

pp; 9 DwgNo 1/5

Title Terms: INFORMATION; PROVISION; **DEVICE** ; TWO; WHEEL; MOTOR; **VEHICLE** ; RADIO; COMMUNICATE; HELMET; VOICE; **BIDIRECTIONAL** ; WIRELESS; COMMUNICATE

Derwent Class: P21; Q23; S02; T07

International Patent Class (Main): **G01C-021/00**

International Patent Class (Additional): A42B-003/30; B62J-029/00;

B62J-039/00; G08G-001/0969; G08G-001/16

File Segment: EPI; EngPI

**11/5/22 (Item 12 from file: 350)**

DIALOG(R)File 350:Derwent WPIX

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013870898 \*\*Image available\*\*

WPI Acc No: 2001-355110/200137

XRPX Acc No: N01-258047

Vehicle navigation method involves generating actual and maximum vehicle speed difference information to change vehicle speed before it arrives at next way point

Patent Assignee: JFDI ENG LTD (JFDI-N)

Inventor: BOWES J E L

Number of Countries: 094 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200129512	A1	20010426	WO 2000GB4035	A	20001019	200137 B
AU 200079346	A	20010430	AU 200079346	A	20001019	200148

Priority Applications (No Type Date): GB 9924554 A 19991019

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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WO 200129512	A1	E	23	G01C-021/20	
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Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TZ UG ZW



Abstract (Basic): WO 200129512 A1

NOVELTY - **Vehicle** position is detected (14). A memory (16) contains data relating to permissible **vehicle** speed between way points and positions of way points, to enable calculation of actual and maximum permissible **vehicle** speeds between **two way** points. When travel time between way points is more than minimum permissible time, actual and maximum **vehicle** speed difference information is output to change **vehicle** speed.

DETAILED DESCRIPTION - The actual and maximum **vehicle** speed difference information is output to change **vehicle** speed before it arrives at next way point. An INDEPENDENT CLAIM is also included for **vehicle navigation device**.

USE - For regulating the speed of vehicles on land, air or in sea between way points.

ADVANTAGE - Operator of **vehicle** is assisted to maintain predetermined speeds during journey to enhance safe operation of **vehicle**, safety of passengers and environment surrounding the **vehicle** as it travels.

DESCRIPTION OF DRAWING(S) - The figure shows the schematic representation of the **navigation** apparatus.

Positioning unit (14)

Memory (16)

pp; 23 DwgNo 1/2

Title Terms: **VEHICLE ; NAVIGATION ; METHOD; GENERATE; ACTUAL; MAXIMUM; VEHICLE ; SPEED; DIFFER; INFORMATION; CHANGE; VEHICLE ; SPEED; ARRIVE; WAY; POINT**

Derwent Class: S02; S04; T01; W06; X22

International Patent Class (Main): **G01C-021/20**

File Segment: EPI

11/5/23 (Item 13 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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013855778 \*\*Image available\*\*

WPI Acc No: 2001-339991/200136

XRPX Acc No: N01-245975

Navigation **apparatus for vehicles, has control unit to acquire information about predetermined area, before entering into area, by bidirectional communication unit**

Patent Assignee: MAZDA KK (MAZD )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2001093087	A	20010406	JP 99267231	A	19990921	200136 B

Priority Applications (No Type Date): JP 99267231 A 19990921

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 2001093087	A	20	G08G-001/09	

Abstract (Basic): JP 2001093087 A

NOVELTY - A control unit acquires information such as category information and positional information of plant in predetermined area by **bidirectional** communication unit connected with external **device** before entering into the area. The control unit updates the information during communication.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (a) Communication **navigation** system;
  - (b) Communication **navigation** procedure;
  - (c) Memory medium with communication **navigation** program
- USE - **Navigation** apparatus for course guidance for motor **vehicle**

ADVANTAGE - Ensures efficient course guidance by acquiring information about difficult area, efficiently.

DESCRIPTION OF DRAWING(S) - The figure shows the display screen displayed by display of **vehicle** mounted machine. (Drawing includes non-English language text).

pp; 20 DwgNo 11/18

Title Terms: **NAVIGATION** ; APPARATUS; **VEHICLE** ; CONTROL; UNIT; ACQUIRE; INFORMATION; PREDETERMINED; AREA; ENTER; AREA; **BIDIRECTIONAL** ; COMMUNICATE; UNIT

Derwent Class: P85; S02; T07

International Patent Class (Main): G08G-001/09

International Patent Class (Additional): **G01C-021/00** ; G08G-001/0969;

G09B-029/00; G09B-029/10

File Segment: EPI; EngPI

**11/5/24 (Item 14 from file: 350)**

DIALOG(R)File 350:Derwent WPIX

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013263220 \*\*Image available\*\*

WPI Acc No: 2000-435125/200038

XRPX Acc No: N00-325165

**Mobile telephone with independent data storage display facility, employs radio frequencies for two way audio exchanges and infrared range to access data from external sources**

Patent Assignee: KENWOOD CORP (TRIR )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2000151825	A	20000530	JP 98314359	A	19981105	200038 B

Priority Applications (No Type Date): JP 98314359 A 19981105

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 2000151825	A		13	H04M-011/00	

Abstract (Basic): JP 2000151825 A

NOVELTY - The mobile telephone (104) has standard RF communication module (19) for **two way** audio exchanges. Display memory features (20,18) access and utilize data from external sources via an infrared based communication system (17). The data transfers are mediated by **computer** and **navigation** modules (100,103) each separately equipped to handle data flow through compatible data communication modules (5,15).

USE - Data acquisition storage with display provision is becoming a popular option with mobile telephones, particularly in regard to **navigational** information sought by **vehicle** mounted units.

ADVANTAGE - Simplifies data transfer storage while keeping the functional or structural layout of the unit less complicated.

DESCRIPTION OF DRAWING(S) - The figure shows the functional block diagrammatic format of the mobile telephone.

Data communication modules (5,15)

Infrared based communication system (17)  
Display memory features (18,20)  
RF communication module (19)  
**Navigation** modules (100,103)  
Mobile telephone (104)  
pp; 13 DwgNo 1/8

Title Terms: MOBILE; TELEPHONE; INDEPENDENT; DATA; STORAGE; DISPLAY;  
FACILITY; EMPLOY; RADIO; FREQUENCY; TWO; WAY; AUDIO; EXCHANGE; INFRARED;  
RANGE; ACCESS; DATA; EXTERNAL; SOURCE  
Derwent Class: S02; W01; W02  
International Patent Class (Main): H04M-011/00  
International Patent Class (Additional): **G01C-021/00** ; G08G-001/0969;  
H04B-001/40; H04B-007/26; H04B-010/10; H04B-010/105; H04B-010/22;  
H04M-001/27; H04M-001/72; H04Q-007/38  
File Segment: EPI

11/5/25 (Item 15 from file: 350)

DIALOG(R)File 350:Derwent WPIX  
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012751112 \*\*Image available\*\*  
WPI Acc No: 1999-557229/199947  
XRPX Acc No: N99-413102

**Data communication system for e.g. vehicle navigation system - uses telephone network to obtain current position information and past movement tracing information of moving body on both sides of base station and mobile station, by performing bidirectional connection**

Patent Assignee: TRONDURE KK (TRON-N)  
Number of Countries: 001 Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 11243576	A	19990907	JP 9843504	A	19980225	199947 B

Priority Applications (No Type Date): JP 9843504 A 19980225

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 11243576	A	18	H04Q-007/34	

Abstract (Basic): JP 11243576 A

NOVELTY - The current position information and past movement tracing information of a moving body are obtained on both sides of a base station (A) and a mobile station (B) via a telephone network (C). The telephone network performs the **bidirectional** connection of the built-in machine (3) of the base station and a portable machine (9) which connects to the portable **terminals** (6) of the mobile station.

USE - For e.g. **vehicle navigation** system.

ADVANTAGE - Simplifies acquisition of current position information and movement tracing information of moving body. Attains reduction of power consumption of GPS receiver. Attains reduction of cost of portable **terminal** since expensive circuit for maintaining transmission tip telephone number becomes unnecessary. Prevents leaking predetermined data of portable **terminal** to unauthorized person.

DESCRIPTION OF DRAWING(S) - The figure shows the sectional view of an information communication system. (3) Built-in machine; (6) Portable **terminals** ; (9) Portable machine; (A) Base station; (B) Mobile station; (C) Telephone network.

Dwg.1/11

Title Terms: DATA; COMMUNICATE; SYSTEM; **VEHICLE** ; **NAVIGATION** ; SYSTEM;  
TELEPHONE; NETWORK; OBTAIN; CURRENT; POSITION; INFORMATION; PASS;

MOVEMENT; TRACE; INFORMATION; MOVE; BODY; SIDE; BASE; STATION; MOBILE;  
STATION; PERFORMANCE; **BIDIRECTIONAL** ; CONNECT  
Derwent Class: P85; S02; W01; W02; W06  
International Patent Class (Main): H04Q-007/34  
International Patent Class (Additional): **G01C-021/00** ; G01S-005/02;  
G09B-029/10; H04B-007/26; H04M-011/00  
File Segment: EPI; EngPI

**11/5/26** (Item 16 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2003 Thomson Derwent. All rts. reserv.

012463880 \*\*Image available\*\*  
WPI Acc No: 1999-269988/199923  
XRPX Acc No: N99-201582

Vehicle navigation apparatus with information exchange function via  
**non-volatile memory - has non-volatile memory registering route guide  
information and memory storing information supplied by input-output  
device which is loaded to non-volatile memory**

Patent Assignee: HITACHI CABLE LTD (HITD )  
Number of Countries: 001 Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 11083527	A	19990326	JP 97245503	A	19970910	199923 B

Priority Applications (No Type Date): JP 97245503 A 19970910

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 11083527	A		6 G01C-021/00	

Abstract (Basic): JP 11083527 A

NOVELTY - A non-volatile memory (22) having no movable parts,  
registers information such as address, telephone numbers pertaining to  
vehicles which are guided by **navigation** controller (24). A memory  
(17) stores the registration information supplied by input-output  
**device** (21) which is detachably loaded to non- volatile memory.

USE - For performing route guidance of vehicles by information  
exchange via non-volatile memory.

ADVANTAGE - Failure due to oscillation or impact is few due to  
absence of movable part. **Bidirectional** information exchange is  
possible due to rewriting facility, wiring is not needed as wire  
communication is not performed. Compact apparatus scale is achieved due  
to absence of antenna and radio. DESCRIPTION OF DRAWING(S) - The figure  
shows the structure of the **vehicle navigation** apparatus. (17)  
Memory; (21) Input- output **device** ; (22) Non-volatile memory; (24)  
**Navigation** controller.

Dwg.1/3

Title Terms: **VEHICLE** ; **NAVIGATION** ; APPARATUS; INFORMATION; EXCHANGE;  
FUNCTION; NON; VOLATILE; MEMORY; NON; VOLATILE; MEMORY; REGISTER; ROUTE;  
GUIDE; INFORMATION; MEMORY; STORAGE; INFORMATION; SUPPLY; INPUT; OUTPUT;  
**DEVICE** ; LOAD; NON; VOLATILE; MEMORY

Derwent Class: P85; S02; T01

International Patent Class (Main): **G01C-021/00**

International Patent Class (Additional): G08G-001/0969; G09B-029/00

File Segment: EPI; EngPI

**11/5/27** (Item 17 from file: 350)  
DIALOG(R)File 350:Derwent WPIX

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012032885      \*\*Image available\*\*

WPI Acc No: 1998-449795/199839

XRPX Acc No: N98-350815

**Motor vehicle navigation using remote down-load of data - involves informing communications centre of desired destination using two - way communication link and receiving exact position of destination from centre, and using received information to compute route**

Patent Assignee: VISTEON TECHNOLOGIES LLC (VIST-N); ZEXEL CORP (DIES ); ZEXEL KK (DIES )

Inventor: OSHIZAWA H

Number of Countries: 006 Number of Patents: 007

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
GB 2323168	A	19980916	GB 981587	A	19980127	199839 B
DE 19808802	A1	19980917	DE 1008802	A	19980303	199843
FR 2761788	A1	19981009	FR 982884	A	19980310	199846
JP 10253377	A	19980925	JP 9853196	A	19980305	199849
CA 2228068	A	19980911	CA 2228068	A	19980128	199928
US 5987381	A	19991116	US 97816107	A	19970311	200001
GB 2323168	B	20010516	GB 981587	A	19980127	200128

Priority Applications (No Type Date): US 97816107 A 19970311

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
GB 2323168	A		33	G01C-021/20	
DE 19808802	A1			G08G-001/0968	
FR 2761788	A1			G06F-017/40	
JP 10253377	A		12	G01C-021/00	
CA 2228068	A			G08G-001/0968	
US 5987381	A			G06F-165/00	
GB 2323168	B			G01C-021/34	

Abstract (Basic): GB 2323168 A

A method enables an on-board **vehicle navigation** system to compute a route from a current position of the **vehicle** to a desired destination. A user of the **navigation** system in a **vehicle** utilises a cellular telephone (172) or any other wireless, **two - way** audio communications link to contact an operator in a remote communications centre. The user informs the operator of his desired destination.

The operator in the communications centre accesses a **computer** database (174) to determine the exact location of the desired destination in terms of latitude/longitude, street address, or other similar information. The operator then causes the information specifying the exact location to be transmitted from the communications centre to the on-board **vehicle navigation** system over a data link (161). The on-board **vehicle navigation** system receives the location information and uses it to compute a route from the **vehicle**'s current position to the desired destination.

ADVANTAGE - Simplifies process of entering desired destination for user and reduces cost while providing clear step-by-step **navigation** instructions along computed route to guide user to selected destination.

Dwg.2A/3

Title Terms: MOTOR; **VEHICLE** ; **NAVIGATION** ; REMOTE; DOWN; LOAD; DATA; INFORMATION; COMMUNICATE; CENTRE; DESTINATION; **TWO - WAY** ; COMMUNICATE; LINK; RECEIVE; EXACT; POSITION; DESTINATION; CENTRE; RECEIVE; INFORMATION ; COMPUTATION; ROUTE

Derwent Class: Q17; S02; T01; W01; W02; W06; X22

International Patent Class (Main): G01C-021/00 ; G01C-021/20 ;

G01C-021/34 ; G06F-017/40; G06F-165/00; G08G-001/0968  
International Patent Class (Additional): B60R-027/00; G01C-021/14 ;  
G01S-005/02; G06F-017/28; G06F-017/30; G06F-019/00; G06F-165-00;  
G06T-001/00; G08C-017/02; G08G-001/0969; H04B-007/00  
File Segment: EPI; EngPI

11/5/28 (Item 18 from file: 350)  
DIALOG(R) File 350:Derwent WPIX  
(c) 2003 Thomson Derwent. All rts. reserv.

011915535 \*\*Image available\*\*  
WPI Acc No: 1998-332445/199829  
XRPX Acc No: N98-259465

**Integrated mobile GIS, GPS, AVL with wireless messaging - includes docking station located within vehicle to be monitored, which has communication node for two way communication with portable, dockable data terminal when it is removed from station**

Patent Assignee: TRIMBLE NAVIGATION LTD (TRIM-N)  
Inventor: BRANCH C N; JANKY J M; NICHOLS M E  
Number of Countries: 001 Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5760742	A	19980602	US 95439967	A	19950512	199829 B
			US 97915192	A	19970820	

Priority Applications (No Type Date): US 95439967 A 19950512; US 97915192 A 19970820

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 5760742	A	19	G01S-003/02	Cont of application US 95439967

Abstract (Basic): US 5760742 A

The integrated geographic information, automatic position location, **navigation**, and communication apparatus includes a docking station located within a **vehicle** to be monitored. A portable, dockable data **terminal** is removably disposed within the docking station. The **terminal** includes a communication **node**, an input for user information, and a display. The communication **node** provides a real-time communication connection between the data **terminal** and a desired location. The **node** has a transmitter and receiver for sending and receiving information from and to the **terminal** to and from the desired location.

The docking station has a second communication **node** for **two way** communication with the **terminal** when it is removed from the docking station. The portable data **terminal** is coupled to the desired location via the second **node** at the docking station. A position tracking station, a **navigation** system, and a geographic mapping system are contained within the data **terminal**, and are coupled to the first communication **node**. The geographic mapping system includes memory for storing previously recorded geographic information.

ADVANTAGE - Communication line between **vehicle** and base station can be accessed and utilised even then portable data **terminal** is not located within docking station.

Dwg.2d/3b

Title Terms: INTEGRATE; MOBILE; GROUP; WIRELESS; DOCK; STATION; LOCATE; **VEHICLE**; MONITOR; COMMUNICATE; **NODE**; TWO; WAY; COMMUNICATE; PORTABLE; DATA; **TERMINAL**; REMOVE; STATION

Index Terms/Additional Words: **GEOGRAPHIC**; **INFORMATION**; **SYSTEM**; **GEOGRAPHIC**; POSITIONING; SYSTEM; AUTOMATIC; **VEHICLE**; LOCATION

Derwent Class: S02; T01; W06; X22

International Patent Class (Main): G01S-003/02  
International Patent Class (Additional): G01C-021/00 ; H04B-007/29  
File Segment: EPI

11/5/29 (Item 19 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2003 Thomson Derwent. All rts. reserv.

011754308 \*\*Image available\*\*  
WPI Acc No: 1998-171218/199816  
XRPX Acc No: N98-136053

**Electronic device with bidirectional rotary switch - has required  
function selected by rotation of switch and activated by subsequent  
depression of switch**

Patent Assignee: PHILIPS PATENTVERWALTUNG GMBH (PHIG ); PHILIPS  
ELECTRONICS NV (PHIG ); PHILIPS GLOEILAMPENFAB NV (PHIG ); VDO CONTROL  
SYSTEMS INC (VDOT )

Inventor: HENGST A

Number of Countries: 020 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 831504	A2	19980325	EP 97202868	A	19970918	199816 B
DE 19639119	A1	19980326	DE 1039119	A	19960924	199818
JP 10106404	A	19980424	JP 97258223	A	19970924	199827
US 6005299	A	19991221	US 97935595	A	19970923	200006

Priority Applications (No Type Date): DE 1039119 A 19960924

Cited Patents: -SR.Pub

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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EP 831504	A2	G	9	H01H-025/06	
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Designated States (Regional): AT BE CH DE DK ES FI FR GB GR IE IT LI LU  
MC NL PT SE

DE 19639119	A1	8	H01H-025/06
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JP 10106404	A	7	H01H-025/06
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US 6005299	A		H01H-019/46
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Abstract (Basic): EP 831504 A

The electronic **device** has a **bidirectional** rotary switch (1) used for selection of individual function elements by rotation of the switch and operation of the function elements by push-button operation of the switch. The function element is released by retraction of the switch. A number of function element groups may be arranged in a selection hierarchy, for selection by repetitive operation of the switch, the latter returned upon its release to a central neutral position.

USE - For **vehicle** onboard monitor system, for selecting **navigation** , radio, **computer** , telephone, or television functions.

ADVANTAGE - Simple switching between different function groups.

Dwg.1/4

Title Terms: ELECTRONIC; **DEVICE** ; **BIDIRECTIONAL** ; ROTATING; SWITCH;  
REQUIRE; FUNCTION; SELECT; ROTATING; SWITCH; ACTIVATE; SUBSEQUENT;  
DEPRESS; SWITCH

Derwent Class: P85; Q17; V03; X22

International Patent Class (Main): H01H-019/46; H01H-025/06

International Patent Class (Additional): B60R-016/02; G01C-021/00 ;  
G09F-009/00; H01H-025/00; H05K-007/00

File Segment: EPI; EngPI

11/5/30 (Item 20 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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011672193 \*\*Image available\*\*

WPI Acc No: 1998-089102/199809

XRPX Acc No: N98-070718

Vehicle navigation method using computer system - involves obtaining data on road within predetermined area around recognised road, when data on recognised road along outgoing route are not bi - directional

Patent Assignee: AISIN AW CO LTD (AISW ); AISHN AW CO LTD (AISW )

Inventor: HIYOKAWA T; TAKENAKA Y; YANAGIKUBO T

Number of Countries: 026 Number of Patents: 006

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 821335	A1	19980128	EP 97112740	A	19970724	199809 B
JP 10089985	A	19980410	JP 97199477	A	19970725	199825
KR 98010939	A	19980430	KR 9722411	A	19970531	199916
US 6047235	A	20000404	US 97871756	A	19970609	200024
KR 267541	B1	20001016	KR 9722411	A	19970531	200134
JP 3269428	B2	20020325	JP 97199477	A	19970725	200222

Priority Applications (No Type Date): JP 96198171 A 19960726

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

EP 821335 A1 E 22 G08G-001/0968

Designated States (Regional): AL AT BE CH DE DK ES FI FR GB GR IE IT LI  
LT LU LV MC NL PT RO SE SI

JP 10089985 A 14 G01C-021/00

KR 98010939 A G08G-001/12

US 6047235 A G06F-165/00

KR 267541 B1 G08G-001/123

JP 3269428 B2 15 G01C-021/00 Previous Publ. patent JP 10089985

Abstract (Basic): EP 821335 A

The method involves recognising a road currently passed by a **vehicle** during an outgoing trip along an outgoing route from a starting point to a destination. Data is obtained on a return route corresponding to the currently passed road along the outgoing route during the outgoing trip. The data thus obtained is storing and the return route is determined upon operator request for return route guidance by using the cost-lowered data thus stored. The road within said predetermined area is located within a predetermined distance from the recognised road currently passed by the **vehicle**, and an angular difference between both the road and the recognised road is within a predetermined value.

ADVANTAGE - Lowers cost of detecting road data stored in order in outgoing trip and determines route meeting requirement of user.

Dwg.1/10

Title Terms: **VEHICLE** ; **NAVIGATION** ; METHOD; **COMPUTER** ; SYSTEM; OBTAIN; DATA; ROAD; PREDETERMINED; AREA; RECOGNISE; ROAD; DATA; RECOGNISE; ROAD; OUTGOING; ROUTE; BI; DIRECTION

Derwent Class: P85; S02; T01; W06; X22

International Patent Class (Main): G01C-021/00 ; G06F-165/00;

G08G-001/0968; G08G-001/12; G08G-001/123

International Patent Class (Additional): G08G-001/0969; G09B-029/00;

G09B-029/10

File Segment: EPI; EngPI



11/5/31 (Item 21 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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011563475 \*\*Image available\*\*  
WPI Acc No: 1997-539956/199750  
XRPX Acc No: N97-449313

**Wireless guide system for tracking individual position - includes portable terminal for transmitting and receiving information from centralised control apparatus set up at stations for positional information**

Patent Assignee: MATSUSHITA ELECTRIC WORKS LTD (MATW )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 9257508	A	19971003	JP 9670718	A	19960326	199750 B

Priority Applications (No Type Date): JP 9670718 A 19960326

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 9257508	A	10	G01C-021/00	

Abstract (Basic): JP 9257508 A

The guide system consists of a portable **terminal** (1) for transmitting and receiving information, with an identification bit added to the transmitted signal. Two or more stations received this information and transit information regarding the position of the individual, through a control part (10). A portable **terminal** transmits information with its identification information constantly, to the station.

A display part (14) displays various selection items and executes accordingly. A guidance for reaching a target place from the current position is also offered as an option in the display part.

ADVANTAGE - Ensures continuity of tracking information, once link is obtained. Offers **bi - directional** transmission of data. Enables usage of specific language for display. Enables reading of pulse data and blood pressure.

Dwg.1/7

Title Terms: WIRELESS; GUIDE; SYSTEM; TRACK; INDIVIDUAL; POSITION; PORTABLE ; **TERMINAL** ; TRANSMIT; RECEIVE; INFORMATION; CENTRE; CONTROL; APPARATUS; SET; UP; STATION; POSITION; INFORMATION

Index Terms/Additional Words: VEHICLE; NAVIGATION; SYSTEM

Derwent Class: S02; W01; W05; W06

International Patent Class (Main): **G01C-021/00**

International Patent Class (Additional): G01S-005/02; G08B-005/22;

H04Q-007/34

File Segment: EPI

11/5/32 (Item 22 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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011441183 \*\*Image available\*\*  
WPI Acc No: 1997-419090/199739  
XRPX Acc No: N97-348974

**Navigation appts for vehicle - has external connection interface which performs internal and external data transfer between memory and CPU**

Patent Assignee: NEC HOME ELECTRONICS LTD (NIDF )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 8005723	A	19960112	JP 94138644	A	19940621	199739 B

Priority Applications (No Type Date): JP 94138644 A 19940621

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 8005723	A	10		

Abstract (Basic): JP 8005723 A

The appts has a map information memory (5) from which map data is read. According to the external command, map process is performed to read map data. A **CPU** (4) holds actual location display, based on the in house data.

The in house data is accompanied with map processed result. An external connection interface (12) is provided, which perform internal and external data transfer between memory and **CPU** .

ADVANTAGE - Performs **bidirectional** communication freely, between interface of information processor.

Dwg.1/5

Title Terms: **NAVIGATION** ; APPARATUS; **VEHICLE** ; EXTERNAL; CONNECT; INTERFACE; PERFORMANCE; INTERNAL; EXTERNAL; DATA; TRANSFER; MEMORY; **CPU**

Derwent Class: P85; S02; W06; X22

International Patent Class (Main): G01S-005/02

International Patent Class (Additional): **G01C-021/00** ; G01S-005/14;

G08G-001/0969; G09B-029/10

File Segment: EPI; EngPI

11/5/33 (Item 23 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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010955489 \*\*Image available\*\*

WPI Acc No: 1996-452439/199645

XRPX Acc No: N96-381567

**Media conversion-type information-providing appts. for vehicle navigation - has transmitter which sends out searched information to vehicle mounted-type information receiver through uni-directional radio media**

Patent Assignee: DAIHATSU MOTOR CO LTD (DAHM )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 8227496	A	19960903	JP 9532419	A	19950221	199645 B

Priority Applications (No Type Date): JP 9532419 A 19950221

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 8227496	A	4	G08G-001/0962	

Abstract (Basic): JP 8227496 A

The appts. provides information to a **vehicle** -mounted information receiver (20) which outputs a request signal received by a request receiver (21) through **bidirectional** media. A searching unit (22) emulates the user **terminal** of each commercial on-line database.

A response information to the user request is searched by the searching unit from the commercial on-line database. A transmitter (23)

sends out the searched information to the information receiver through a uni-directional radio media.

ADVANTAGE - Effectively simplifies reception of information request. Reduces time used for user request for updated information.

Dwg.1/3

Title Terms: MEDIUM; CONVERT; TYPE; INFORMATION; APPARATUS; **VEHICLE** ;  
**NAVIGATION** ; TRANSMIT; SEND; SEARCH; INFORMATION; **VEHICLE** ; MOUNT; TYPE;  
INFORMATION; RECEIVE; THROUGH; UNI; DIRECTION; RADIO; MEDIUM

Derwent Class: S02; T01; X22

International Patent Class (Main): G08G-001/0962

International Patent Class (Additional): **G01C-021/00** ; G06F-017/30

File Segment: EPI

11/5/34 (Item 24 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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009950346 \*\*Image available\*\*

WPI Acc No: 1994-218059/199426

XRPX Acc No: N94-172151

**Guidance and control device for un-manned submarine observation vessel  
- uses of surface vessels with radio link to position satellites, and  
link to submarine to determine position and provide control**

Patent Assignee: THOMAS H (THOM-I); HUBERT T (HUBE-I)

Inventor: THOMAS H; SOMNTER J; HUBERT T

Number of Countries: 047 Number of Patents: 013

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 9414081	A1	19940623	WO 93FR1186	A	19931203	199426 B
FR 2699713	A1	19940624	FR 9215667	A	19921217	199428
AU 9455680	A	19940704	AU 9455680	A	19931203	199437
NO 9502392	A	19950619	WO 93FR1186	A	19931203	199537
			NO 952392	A	19950616	
EP 676056	A1	19951011	WO 93FR1186	A	19931203	199545
			EP 94900899	A	19931203	
JP 8504944	W	19960528	WO 93FR1186	A	19931203	199646
			JP 94513849	A	19931203	
EP 676056	B1	19961106	WO 93FR1186	A	19931203	199649
			EP 94900899	A	19931203	
US 5579285	A	19961126	WO 93FR1186	A	19931203	199702
			US 95454125	A	19950821	
DE 69305868	E	19961212	DE 605868	A	19931203	199704
			WO 93FR1186	A	19931203	
			EP 94900899	A	19931203	
AU 694725	B	19980730	AU 9455680	A	19931203	199842
RU 2119172	C1	19980920	RU 95115514	A	19931203	200008
NO 310213	B1	20010605	WO 93FR1186	A	19931203	200134
			NO 952392	A	19950616	
JP 3319759	B2	20020903	WO 93FR1186	A	19931203	200264
			JP 94513849	A	19931203	

Priority Applications (No Type Date): FR 9215667 A 19921217

Cited Patents: 01Jnl.Ref; FR 2643463; GB 2247379; US 4315326; US 4622557;  
US 5119341

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 9414081 A1 F 31 G01S-005/00

Designated States (National): AT AU BB BG BR BY CA CH CZ DE DK ES FI GB

HU JP KP KR KZ LK LU LV MG MN MW NL NO NZ PL PT RO RU SD SE SK UA US UZ

VN

Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LU MC NL  
 OA PT SE

FR 2699713	A1	G08C-017/00	
AU 9455680	A	G01S-005/00	Based on patent WO 9414081
NO 9502392	A	G01S-005/00	
EP 676056	A1 F 31	G01S-005/00	Based on patent WO 9414081

Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LI LU MC  
 NL PT SE

JP 8504944	W	35 G01S-005/00	Based on patent WO 9414081
EP 676056	B1 F 18	G01S-005/00	Based on patent WO 9414081

Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LI LU MC  
 NL PT SE

US 5579285	A	13 G01S-005/00	Based on patent WO 9414081
DE 69305868	E	G01S-005/00	Based on patent EP 676056
			Based on patent WO 9414081
AU 694725	B	G01S-005/00	Previous Publ. patent AU 9455680
			Based on patent WO 9414081
RU 2119172	C1	G01S-005/02	
NO 310213	B1	G01S-005/00	Previous Publ. patent NO 9502392
JP 3319759	B2	12 G01S-005/02	Previous Publ. patent JP 8504944
			Based on patent WO 9414081

Abstract (Basic): WO 9414081 A

The **device** includes at least one manned floating vessel (2) with a one-way communication receiver receiving positioning radio signals from a satellite (4). The vessel also includes a **two - way** transceiver for sending radio message signals to and from a land-based **two - way** transceiver (7) via a further satellite (6).

The vessel also includes timing and data signal transceivers (8) capable of communicating with the submerged vessel (1) which is to be guided and controlled. With the aid of the satellite positioning system, signals may be sent to guide the trajectory of the underwater **vehicle**.

**ADVANTAGE** - Provides absolute measurement of position of guided **vehicle**.

Dwg.1/6

Title Terms: GUIDE; CONTROL; **DEVICE** ; MAN; SUBMARINE; OBSERVE; VESSEL; SURFACE; VESSEL; RADIO; LINK; POSITION; SATELLITE; LINK; SUBMARINE; DETERMINE; POSITION; CONTROL

Derwent Class: Q24; W05; W06

International Patent Class (Main): G01S-005/00; G01S-005/02; G08C-017/00

International Patent Class (Additional): B63B-022/16; B63G-007/02; B63G-008/41; **G01C-021/00** ; G01S-001/00; G01S-005/14; G01S-011/14; G01S-015/06; G05D-001/00

File Segment: EPI; EngPI

**11/5/35 (Item 25 from file: 350)**

DIALOG(R)File 350:Derwent WPIX

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007735791 \*\*Image available\*\*

WPI Acc No: 1989-000903/198901

XRPX Acc No: N89-000773

**Laser-optical navigation e.g. for harvesting vehicle - using computer to effect image analysis and to execute determin. calculation basis of analysis information**

Patent Assignee: ARNEX HB (ARNE-N); HB ARNEX (ARNE-N)

Inventor: OLSEN B O; OLSEN B

Number of Countries: 011 Number of Patents: 011

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 296405	A	19881228	EP 88109098	A	19880608	198901 B
AU 8818154	A	19881222				198907
SE 8702569	A	19881223				198907
DK 8803389	A	19881223				198910
SE 464837	B	19910617				199127
CA 1317009	C	19930427	CA 569676	A	19880616	199322
US 5241481	A	19930831	US 88206186	A	19880613	199336
			US 90570960	A	19900821	
EP 296405	B1	19940330	EP 88109098	A	19880608	199413
DE 3888732	G	19940505	DE 3888732	A	19880608	199419
			EP 88109098	A	19880608	
DK 169004	B	19940725	DK 883389	A	19880621	199428
ES 2052638	T3	19940716	EP 88109098	A	19880608	199430

Priority Applications (No Type Date): SE 872569 A 19870622  
Cited Patents: A3...9014; DE 3316600; EP 213939; FR 2186658; GB 2143395;  
No-SR.Pub; US 4225226; US 4516264

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
EP 296405	A	E 7		
Designated States (Regional): DE ES FR GB IT NL				
US 5241481	A	7	G06F-015/50	Cont of application US 88206186
EP 296405	B1	E 9	G01S-017/87	
Designated States (Regional): DE ES FR GB IT NL				
DE 3888732	G		G01S-017/87	Based on patent EP 296405
DK 169004	B		G05D-001/10	patent DK 8803389
ES 2052638	T3		G01S-017/87	Based on patent EP 296405
CA 1317009	C		G01S-017/87	

Abstract (Basic): EP 296405 A

The laser optical **navigation** method includes using a rotating pulsed beam in the form of a vertical disc, transmitted from a sensor. The light of the beam is reflected and registered by the sensor. The beam is **computer** processed for determination of the position of the sensor unit in the longitudinal, lateral and elevational directions and of the altitude angles. Transmission of information to the sensor unit for emission of the pulsed beam as well as transmission of information on reflected light beam to the sensor unit for processing are effected via a **bidirectional** IR link between two units.

3/5

Title Terms: LASER; OPTICAL; **NAVIGATION** ; HARVEST; **VEHICLE** ; **COMPUTER** ; EFFECT; IMAGE; ANALYSE; EXECUTE; DETERMINE; CALCULATE; BASIS; ANALYSE; INFORMATION

Derwent Class: W06; X25

International Patent Class (Main): G01S-017/87; G05D-001/10; G06F-015/50

International Patent Class (Additional): **G01C-021/20** ; G01S-005/16;

G01S-017/02; G05D-001/02

File Segment: EPI

11/5/36 (Item 26 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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004547005

WPI Acc No: 1986-050349/198608

XRPX Acc No: N86-036867

**Visual display aid for vehicle navigation - has microprocessor performing route selection from road memory map and MODEM unit to decode**

**radio messages**

Patent Assignee: BOTENG K (BOAT-I)

Inventor: BOATENG K

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
GB 2163282	A	19860219	GB 8518135	A	19850718	198608 B

Priority Applications (No Type Date): GB 8420519 A 19840813; GB 8518135 A 19850718

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
GB 2163282	A	7		

Abstract (Basic): GB 2163282 A

The appts. comprises a display panel e.g. a television screen (4), a microprocessor unit (6), a battery(8) and a memory (10). The memory may be a cassette recorder, a disc drive **device** or a bubble memory. Memory maps containing detailed road names of local areas are inserted in the display.

The microprocessor is programmed to process data on the memory map and to list on the display the correct sequence of road names for the driver's planned journey. The appts. may include a radio transceiver (12) for **two way** communication, and a modulator/demodulator unit to code/decode the messages received.

(7pp Dwg.No.2/6

Title Terms: VISUAL; DISPLAY; AID; **VEHICLE ; NAVIGATION ;** MICROPROCESSOR; PERFORMANCE; ROUTE; SELECT; ROAD; MEMORY; MAP; MODEM; UNIT; DECODE; RADIO ; MESSAGE

Derwent Class: P85; T04; X22

International Patent Class (Additional): **G01C-021/00 ; G09G-003/00**

File Segment: EPI; EngPI